

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
18 October 2001 (18.10.2001)

PCT

(10) International Publication Number
WO 01/077389 A3

- (51) International Patent Classification⁷: C12Q 1/68 (74) Agents: TURNER, Christopher et al.; Incyte Genomics, Inc., 3160 Porter Drive, Palo Alto, CA 94304 (US).
- (21) International Application Number: PCT/US01/11128
- (22) International Filing Date: 4 April 2001 (04.04.2001) (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/195,106 5 April 2000 (05.04.2000) US
- (71) Applicant (*for all designated States except US*): INCYTE GENOMICS, INC. [US/US]; 3160 Porter Drive, Palo Alto, CA 94304 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): SHIFFMAN, Dov [US/US]; 557 Hilbar Lane, Palo Alto, CA 94303 (US). SOMOGYI, Roland [CA/US]; 1090 Cliffside La, RR1PO Sydenham, Ontario KOH 2T0 (CA). LAWN, Richard [US/US]; 1927 8th Avenue, San Francisco, CA 94116 (US). SEILHAMER, Jeffrey, J. [US/US]; 12555 La Cresta, Los Altos Hills, CA 94022 (US). PORTER, Gordon, J. [US/US]; 7261 Dumas Place, Newark, CA 94560 (US). MIKITA, Thomas [US/US]; 1672 Dolores Street, #7, San Francisco, CA 94110 (US). TAI, Julie [US/US]; 10375 Burne Avenue, Cupertino, CA 95014 (US).
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- (88) Date of publication of the international search report: 24 April 2003
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: GENES EXPRESSED IN FOAM CELL DIFFERENTIATION

(57) Abstract: The present invention relates to purified polynucleotides and compositions comprising pluralities of polynucleotides that are differentially expressed during foam cell development and are associated with atherosclerosis. The present invention presents the use of the compositions as elements on a substrate, and provides methods for using the compositions and polynucleotides.

WO 01/077389 A3

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/11128

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BIOSIS, EPO-Internal, WPI Data, PAJ, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE EBI [Online] EMBL; 30 April 1998 (1998-04-30) ISHIBASHI, K.: "Homo sapiens SBC2 mRNA for sodium bicarbonate cotransporter2, complete cds" retrieved from EMBL, accession no. AB012130 Database accession no. AB012130 XP002216087 the whole document & ISHIBASHI, K. ET AL.: "Molecular cloning of a new sodium bicarbonate cotransporter cDNA from human retina" BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol. 246, no. 2, 19 May 1998 (1998-05-19), pages 535-538, page 537; figure 3</p> <p style="text-align: center;">---</p> <p style="text-align: center;">-/--</p>	1,2,4-9

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

9 October 2002

Date of mailing of the international search report

16. 01. 2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Botz, J

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/11128

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WANG NAN ET AL: "Interleukin 8 in induced by cholesterol loading of macrophages and expressed by macrophage foam cells in human atheroma." JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 271, no. 15, 1996, pages 8837-8842, XP002216084 ISSN: 0021-9258 figures 1-8</p>	1,2,4-9
X	<p>--- HILTUNEN M O ET AL: "FUNCTIONAL GENOMICS AND DNA ARRAY TECHNIQUES IN ATHEROSCLEROSIS RESEARCH" CURRENT OPINION IN LIPIDOLOGY, LONDON, GB, vol. 10, 1999, pages 515-519, XP001010623 ISSN: 0957-9672 the whole document</p>	1,2,4-9
X	<p>--- US 5 968 770 A (GIMBRONE JR MICHAEL A ET AL) 19 October 1999 (1999-10-19) column 12 -column 66</p>	1,2,4-9
Y	<p>--- TANIYAMA YOSHIO ET AL: "Cloning and expression of a novel lysophospholipase which structurally resembles lecithin cholesterol acyltransferase." BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol. 257, no. 1, 2 April 1999 (1999-04-02), pages 50-56, XP002216085 ISSN: 0006-291X the whole document</p>	1,2,4-9
Y	<p>--- TONTONOV P ET AL: "PPARGAMMA PROMOTES MONOCYTE/MACROPHAGE DIFFERENTIATION AND UPTAKE OF OXIDIZED LDL" CELL, CELL PRESS, CAMBRIDGE, NA, US, vol. 93, no. 2, 17 April 1998 (1998-04-17), pages 241-252, XP000986023 ISSN: 0092-8674 the whole document</p>	1,2,4-9
Y	<p>--- SHIFFMAN DOV ET AL: "Large scale gene expression analysis of cholesterol-loaded macrophages" JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD, US, vol. 275, no. 48, 1 December 2000 (2000-12-01), pages 37324-37332, XP002178267 ISSN: 0021-9258 the whole document</p> <p>---</p> <p>-/--</p>	1,2,4-9

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/11128

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>CULLEN PAUL ET AL: "Downregulation of the selectin ligand-producing fucosyltransferases Fuc-TIV and Fuc-TVII during foam cell formation in monocyte-derived macrophages." ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY, vol. 17, no. 8, 1997, pages 1591-1598, XP008009139 ISSN: 1079-5642 figures 2-8</p> <p style="text-align: center;">---</p>	1,2,4-9
Y	<p>WANG X ET AL: "Induced expression of adipophilin mRNA in human macrophages stimulated with oxidized low-density lipoprotein and in atherosclerotic lesions" FEBS LETTERS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 462, no. 1-2, 26 November 1999 (1999-11-26), pages 145-150, XP004260604 ISSN: 0014-5793 the whole document</p> <p style="text-align: center;">---</p>	1,2,4-9
Y	<p>HILTUNEN TIMO P ET AL: "Expression of LDL receptor, VLDL receptor, LDL receptor-related protein, and scavenger receptor in rabbit atherosclerotic lesions: Marked induction of scavenger receptor and VLDL receptor expression during lesion development." CIRCULATION, vol. 97, no. 11, 24 March 1998 (1998-03-24), pages 1079-1086, XP002216086 ISSN: 0009-7322 the whole document</p> <p style="text-align: center;">---</p>	1,2,4-9
X	<p>WO 99 37817 A (SCHERING AG ;JOHNSON PAUL H (US); PONTE PHYLLIS A (US); ZAJCHOWSKI) 29 July 1999 (1999-07-29) the whole document</p> <p style="text-align: center;">-----</p>	1,2,4-9

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 01/11128

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☒ Claims Nos.: 1,2,4-9 (partially)
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-2, 4-9 (partially)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-2,4-9 (partially)

Invention 1:

SEQ. ID. No. 1, being comprised in a composition of polynucleotides that are differentially expressed in foam cell development, its use in a high-throughput method for detecting altered expression of one or more polynucleotides in a sample, its use in a high-throughput method of screening a library of molecules or compounds to identify a ligand which binds a polynucleotide, its use in a method of obtaining an extended or full length gene from a library of nucleic acid sequences.

2. Claims: 1-2,4-9 (partially)

Inventions 2 - 34:

Idem for invention 2 - 34, inventions being specified by SEQ. ID. Nos: 2 - 34;

3. Claims: 1-2,4-19 (partially)

Invention 35:

SEQ. ID. No. 35, being comprised in a composition of polynucleotides that are differentially expressed in foam cell development, its use in a high-throughput method for detecting altered expression of one or more polynucleotides in a sample, its use in a high-throughput method of screening a library of molecules or compounds to identify a ligand which binds a polynucleotide, its use in a method of obtaining an extended or full length gene from a library of nucleic acid sequences, it being a substantially purified polynucleotide, an expression vector being derived from said SEQ. ID., a host-cell being derived from said SEQ. ID., its use in a method for producing a protein, a protein being derived from said SEQ. ID., its use in a high-throughput method for screening a library of molecules or compounds to identify at least one ligand which specifically binds a protein, its use in a method of purifying a ligand from a sample, a pharmaceutical composition comprising a protein being derived from said SEQ. ID. and a purified antibody specific for said protein;

4. Claims: 1-2,4-19 (partially)

Invention 36 - 46:

Idem for invention 36 - 46, inventions being specified by SEQ. ID. Nos: 36 - 46;

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

5. Claims: 1-19 (partially)

Invention 47:

SEQ. ID. No. 47, being comprised in a composition of polynucleotides that are differentially expressed in foam cell development, its use in a high-throughput method for detecting altered expression of one or more polynucleotides in a sample, its use in a high-throughput method of screening a library of molecules or compounds to identify a ligand which binds a polynucleotide, its use in a method of obtaining an extended or full length gene from a library of nucleic acid sequences, it being a substantially purified polynucleotide, an expression vector being derived from said SEQ. ID., a host-cell being derived from said SEQ. ID., its use in a method for producing a protein, a protein being derived from said SEQ. ID., its use in a high-throughput method for screening a library of molecules or compounds to identify at least one ligand which specifically binds a protein, its use in a method of purifying a ligand from a sample, a pharmaceutical composition comprising a protein being derived from said SEQ. ID. and a purified antibody specific for said protein;

6. Claims: 1-19 (partially)

Invention 48:

SEQ. ID. No. 48, being comprised in a composition of polynucleotides that are differentially expressed in foam cell development, its use in a high-throughput method for detecting altered expression of one or more polynucleotides in a sample, its use in a high-throughput method of screening a library of molecules or compounds to identify a ligand which binds a polynucleotide, its use in a method of obtaining an extended or full length gene from a library of nucleic acid sequences, it being a substantially purified polynucleotide, an expression vector being derived from said SEQ. ID., a host-cell being derived from said SEQ. ID., its use in a method for producing a protein, a protein being derived from said SEQ. ID., its use in a high-throughput method for screening a library of molecules or compounds to identify at least one ligand which specifically binds a protein, its use in a method of purifying a ligand from a sample, a pharmaceutical composition comprising a protein being derived from said SEQ. ID. and a purified antibody specific for said protein;

7. Claims: 1-9 (partially)

Invention 49:

SEQ. ID. No. 49, being comprised in a composition of polynucleotides that are differentially expressed in foam cell development, its use in a high-throughput method for detecting altered expression of one or more polynucleotides

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

in a sample, its use in a high-throughput method of screening a library of molecules or compounds to identify a ligand which binds a polynucleotide, its use in a method of obtaining an extended or full length gene from a library of nucleic acid sequences.

8. Claims: 1-9 (partially)

Invention 50 - 55:
Idem for invention 50 - 55, inventions being specified by
SEQ. ID. Nos: 50 - 55;

9. Claims: 1,3,4,7-9 (partially)

Invention 56:
SEQ. ID. No. 56, being comprised in a composition of polynucleotides that are differentially expressed in foam cell development, its use in a high-throughput method of screening a library of molecules or compounds to identify a ligand which binds a polynucleotide, its use in a method of obtaining an extended or full length gene from a library of nucleic acid sequences.

10. Claims: 1,3,4,7-9 (partially)

Invention 57 - 67:
Idem for invention 57 - 67, inventions being specified by
SEQ. ID. Nos: 57 - 67;

11. Claims: 1,4,7-19 (partially)

Invention 68:
SEQ. ID. No. 68, being comprised in a composition of polynucleotides that are differentially expressed in foam cell development, its use in a high-throughput method of screening a library of molecules or compounds to identify a ligand which binds a polynucleotide, its use in a method of obtaining an extended or full length gene from a library of nucleic acid sequences, it being a substantially purified polynucleotide, an expression vector being derived from said SEQ. ID., a host-cell being derived from said SEQ. ID., its use in a method for producing a protein, a protein being derived from said SEQ. ID., its use in a high-throughput method for screening a library of molecules or compounds to identify at least one ligand which specifically binds a protein, its use in a method of purifying a ligand from a sample, a pharmaceutical composition comprising a protein being derived from said SEQ. ID. and a purified antibody specific for said protein;

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

12. Claims: 1,4,7-19 (partially)

Inventions 69 - 80:

Idem for invention 69 - 80, inventions being specified by
SEQ. ID. Nos: 69 - 80;

13. Claims: 1,4,7-9 (partially)

Invention 81:

SEQ. ID. No. 81, being comprised in a composition of polynucleotides that are differentially expressed in foam cell development, its use in a high-throughput method of screening a library of molecules or compounds to identify a ligand which binds a polynucleotide, its use in a method of obtaining an extended or full length gene from a library of nucleic acid sequences.

14. Claims: 1,4,7-9 (partially)

Inventions 82 - 170:

Idem for invention 82 - 170, inventions being specified by
SEQ. ID. Nos: 82 - 170;

15. Claims: 1,2,4-9 (partially)

Invention 171:

SEQ. ID. No. 171, being comprised in a composition of polynucleotides that are differentially expressed in foam cell development, its use in a high-throughput method for detecting altered expression of one or more polynucleotides in a sample, its use in a high-throughput method of screening a library of molecules or compounds to identify a ligand which binds a polynucleotide, its use in a method of obtaining an extended or full length gene from a library of nucleic acid sequences.

16. Claims: 1,2,4-9 (partially)

Inventions 172 - 191:

Idem for invention 172 - 191, inventions being specified by
SEQ. ID. Nos: 172 - 191;

17. Claims: 1,2,4-19 (partially)

Invention 192:

SEQ. ID. No. 192, being comprised in a composition of polynucleotides that are differentially expressed in foam cell development, its use in a high-throughput method for detecting altered expression of one or more polynucleotides in a sample, its use in a high-throughput method of

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

screening a library of molecules or compounds to identify a ligand which binds a polynucleotide, its use in a method of obtaining an extended or full length gene from a library of nucleic acid sequences, it being a substantially purified polynucleotide, an expression vector being derived from said SEQ. ID., a host-cell being derived from said SEQ. ID., its use in a method for producing a protein, a protein being derived from said SEQ. ID., its use in a high-throughput method for screening a library of molecules or compounds to identify at least one ligand which specifically binds a protein, its use in a method of purifying a ligand from a sample, a pharmaceutical composition comprising a protein being derived from said SEQ. ID. and a purified antibody specific for said protein;

18. Claims: 1,2,4-19 (partially)

Invention 193:

SEQ. ID. No. 193, being comprised in a composition of polynucleotides that are differentially expressed in foam cell development, its use in a high-throughput method for detecting altered expression of one or more polynucleotides in a sample, its use in a high-throughput method of screening a library of molecules or compounds to identify a ligand which binds a polynucleotide, its use in a method of obtaining an extended or full length gene from a library of nucleic acid sequences, it being a substantially purified polynucleotide, an expression vector being derived from said SEQ. ID., a host-cell being derived from said SEQ. ID., its use in a method for producing a protein, a protein being derived from said SEQ. ID., its use in a high-throughput method for screening a library of molecules or compounds to identify at least one ligand which specifically binds a protein, its use in a method of purifying a ligand from a sample, a pharmaceutical composition comprising a protein being derived from said SEQ. ID. and a purified antibody specific for said protein;

19. Claims: 1-9 (partially)

Invention 194:

SEQ. ID. No. 49, being comprised in a composition of polynucleotides that are differentially expressed in foam cell development, its use in a high-throughput method for detecting altered expression of one or more polynucleotides in a sample, its use in a high-throughput method of screening a library of molecules or compounds to identify a ligand which binds a polynucleotide, its use in a method of obtaining an extended or full length gene from a library of nucleic acid sequences.

20. Claims: 1-9 (partially)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Inventions 195 & 196:
Idem for invention 195 & 196, inventions being specified by
SEQ. ID. Nos: 195 & 196;

21. Claims: 1,3,4,7-9 (partially)

Invention 197:
SEQ. ID. No. 197, being comprised in a composition of
polynucleotides that are differentially expressed in foam
cell development, its use in a high-throughput method of
screening a library of molecules or compounds to identify a
ligand which binds a polynucleotide, its use in a method of
obtaining an extended or full length gene from a library of
nucleic acid sequences.

22. Claims: 1,3,4,7-9 (partially)

Inventions 197 - 213:
Idem for invention 197 - 213, inventions being specified by
SEQ. ID. Nos: 197 - 213;

23. Claims: 1,4,7-19 (partially)

Invention 214:
SEQ. ID. No. 214, being comprised in a composition of
polynucleotides that are differentially expressed in foam
cell development, its use in a high-throughput method of
screening a library of molecules or compounds to identify a
ligand which binds a polynucleotide, its use in a method of
obtaining an extended or full length gene from a library of
nucleic acid sequences, it being a substantially purified
polynucleotide, an expression vector being derived from said
SEQ. ID., a host-cell being derived from said SEQ. ID., its
use in a method for producing a protein, a protein being
derived from said SEQ. ID., its use in a high-throughput
method for screening a library of molecules or compounds to
identify at least one ligand which specifically binds a
protein, its use in a method of purifying a ligand from a
sample, a pharmaceutical composition comprising a protein
being derived from said SEQ. ID. and a purified antibody
specific for said protein;

24. Claims: 1,4,7-19 (partially)

Inventions 214 - 222:
Idem for invention 214 - 222, inventions being specified by
SEQ. ID. Nos: 214 - 222;

25. Claims: 1,4,7-9 (partially)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Invention 223:

SEQ. ID. No. 223, being comprised in a composition of polynucleotides that are differentially expressed in foam cell development, its use in a high-throughput method of screening a library of molecules or compounds to identify a ligand which binds a polynucleotide, its use in a method of obtaining an extended or full length gene from a library of nucleic acid sequences.

26. Claims: 1,4,7-9 (partially)

Inventions 224 - 276:

Idem for invention 224 - 276, inventions being specified by SEQ. ID. Nos: 224 - 276;

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1,2,4-9 (partially)

Present claim 1 seeks protection for a composition containing a plurality of polynucleotides. Such a wording relates to an extremely large number of possible combinations of polynucleotides. In fact, by using the term "composition of a ... plurality of polynucleotides" the claim shows a lack of clarity and conciseness within the meaning of Article 6 PCT to such an extent as to render a meaningful search of the claim impossible. Since all of the subsequent claims refer back onto said "composition of claim 1" this argumentation also holds true for the other claims of the first inventions, namely claims 1,2,4-9. Consequently, the search has been carried out for those parts of the application which do appear to be clear and or concise, namely the sequence with the sequence identity number 1 and the complement of said sequence identity number on the complete length. Therefore neither partial fragments of said sequence identity number 1 nor partial fragments of the complement of sequence identity number 1 have been searched.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 01/11128

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5968770	A	19-10-1999	US 6156500 A	05-12-2000
			AU 714778 B2	13-01-2000
			AU 4921496 A	27-08-1996
			CA 2212731 A1	15-08-1996
			EP 0808324 A1	26-11-1997
			JP 11500309 T	12-01-1999
			WO 9624604 A1	15-08-1996
			US 6359194 B1	19-03-2002
			US 2002137700 A1	26-09-2002
			US 5834248 A	10-11-1998
			US 5882925 A	16-03-1999
			US 5849578 A	15-12-1998
			US 2002142441 A1	03-10-2002
			US 6054558 A	25-04-2000
			US 6225084 B1	01-05-2001
			US 6020463 A	01-02-2000
			US 6124433 A	26-09-2000
			US 6018025 A	25-01-2000
			US 2002178458 A1	28-11-2002
			US 2002170077 A1	14-11-2002

WO 9937817	A	29-07-1999	AU 2341999 A	09-08-1999
			CA 2317650 A1	29-07-1999
			CN 1289372 T	28-03-2001
			EP 1051516 A1	15-11-2000
			JP 2002505852 T	26-02-2002
			WO 9937817 A1	29-07-1999

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
18 October 2001 (18.10.2001)

PCT

(10) International Publication Number
WO 01/77389 A2

(51) International Patent Classification⁷: **C12Q 1/68**

(US). **MIKITA, Thomas** [US/US]; 1672 Dolores Street, #7, San Francisco, CA 94110 (US). **TAI, Julie** [US/US]; 10375 Burne Avenue, Cupertino, CA 95014 (US).

(21) International Application Number: **PCT/US01/11128**

(22) International Filing Date: **4 April 2001 (04.04.2001)**

(74) Agents: **TURNER, Christopher et al.**; Incyte Genomics, Inc., 3160 Porter Drive, Palo Alto, CA 94304 (US).

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:
60/195,106 **5 April 2000 (05.04.2000)** **US**

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(71) Applicant (*for all designated States except US*): **INCYTE GENOMICS, INC.** [US/US]; 3160 Porter Drive, Palo Alto, CA 94304 (US).

(72) Inventors; and

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

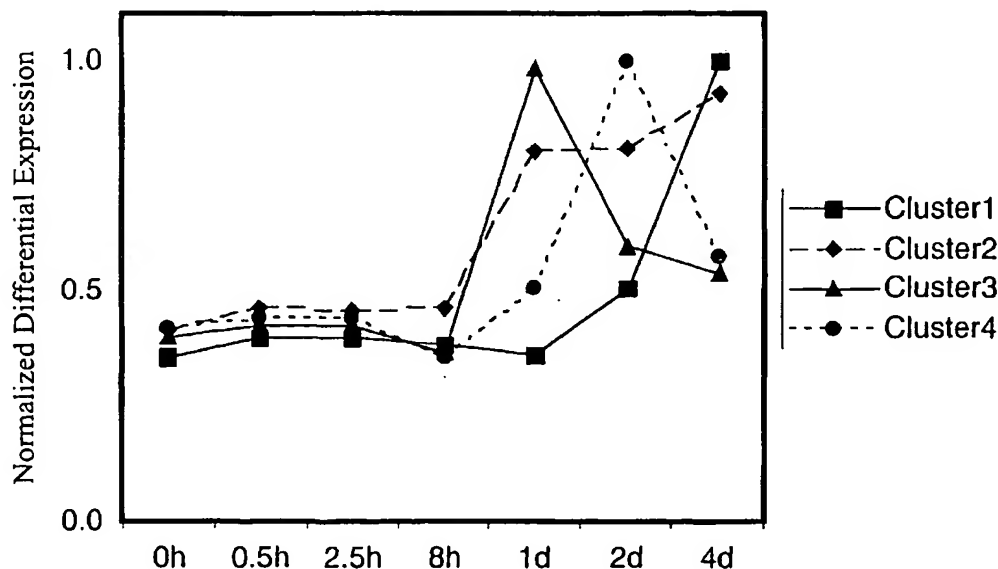
(75) Inventors/Applicants (*for US only*): **SHIFFMAN, Dov** [US/US]; 557 Hilbar Lane, Palo Alto, CA 94303 (US). **SOMOGYI, Roland** [CA/US]; 1090 Cliffside La, RRIPO Sydenham, Ontario KOH 2T0 (CA). **LAWN, Richard** [US/US]; 1927 8th Avenue, San Francisco, CA 94116 (US). **SEILHAMER, Jeffrey, J.** [US/US]; 12555 La Cresta, Los Altos Hills, CA 94022 (US). **PORTER, Gordon, J.** [US/US]; 7261 Dumas Place, Newark, CA 94560

Published:

— *without international search report and to be republished upon receipt of that report*

[Continued on next page]

(54) Title: **GENES EXPRESSED IN FOAM CELL DIFFERENTIATION**



(57) Abstract: The present invention relates to purified polynucleotides and compositions comprising pluralities of polynucleotides that are differentially expressed during foam cell development and are associated with atherosclerosis. The present invention presents the use of the compositions as elements on a substrate, and provides methods for using the compositions and polynucleotides.

WO 01/77389 A2



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

GENES EXPRESSED IN FOAM CELL DIFFERENTIATION

TECHNICAL FIELD

The present invention relates to a plurality of polynucleotides which may be used in detecting
5 genes modulated in human foam cells. In particular, the present invention provides for the use of these polynucleotides in the diagnosis of conditions, disorders, and diseases associated with atherosclerosis.

BACKGROUND OF THE INVENTION

Atherosclerosis and the associated coronary artery disease and cerebral stroke represent the
10 most common cause of death in industrialized nations. Although certain key risk factors have been identified, a full molecular characterization that elucidates the causes and provide care for this complex disease has not been achieved. Molecular characterization of growth and regression of atherosclerotic vascular lesions requires identification of the genes that contribute to features of the lesion including growth, stability, dissolution, rupture and, most lethally, induction of occlusive vessel thrombus.

15 An early step in the development of atherosclerosis is formation of the "fatty streak". Lipoproteins, such as the cholesterol-rich low-density lipoprotein (LDL), accumulate in the extracellular space of the vascular intima, and undergo modification. Oxidation of LDL occurs most avidly in the sub-endothelial space where circulating antioxidant defenses are less effective. The degree of LDL oxidation affects its interaction with target cells. "Minimally oxidized" LDL (MM-LDL) is
20 able to bind to LDL receptor but not to the oxidized LDL (Ox-LDL) or "scavenger" receptors that have been identified, including scavenger receptor types A and B, CD36, CD68/macrosialin and LOX-1 (Navab *et al.* (1994) *Arterioscler Thromb Vasc Biol* 16:831-842; Kodama *et al.* (1990) *Nature* 343:531-535; Acton *et al.* (1994) *J Biol Chem* 269:21003-21009; Endemann *et al.* (1993) *J Biol Chem* 268:11811-11816; Ramprasad *et al.* (1996) *Proc Natl Acad Sci* 92:14833-14838; Kataoka *et al.*
25 (1999) *Circulation* 99:3110-3117). MM-LDL can increase the adherence and penetration of monocytes, stimulate the release of monocyte chemotactic protein 1 (MCP-1) by endothelial cells, and induce scavenger receptor A (SRA) and CD36 expression in macrophages (Cushing *et al.* (1990) *Proc Natl Acad Sci* 87:5134-5138; Yoshida *et al.* (1998) *Arterioscler Thromb Vasc Biol* 18:794-802; Steinberg (1997) *J Biol Chem* 272:20963-20966). SRA and the other scavenger receptors can bind
30 Ox-LDL and enhance uptake of lipoprotein particles.

Mononuclear phagocytes enter the intima, differentiate into macrophages, and ingest modified lipids including Ox-LDL. In most cell types, cholesterol content is tightly controlled by feedback regulation of LDL receptors and biosynthetic enzymes (Brown and Goldstein (1986) *Science* 232:34-47). In macrophages, however, the additional scavenger receptors lead to unregulated uptake of

cholesterol (Brown and Goldstein (1983) *Annu Rev Biochem* 52:223-261) and accumulation of multiple intracellular lipid droplets producing a "foam cell" phenotype. Cholesterol-engorged and dead macrophages contribute most of the mass of early "fatty streak" plaques and typical "advanced" lesions of diseased arteries. Numerous studies have described a variety of foam cell responses that contribute to growth and rupture of atherosclerotic vessel wall plaques. These responses include production of multiple growth factors and cytokines, which promote proliferation and adherence of neighboring cells; chemokines, which further attract circulating monocytes into the growing plaque; proteins, which cause remodeling of the extracellular matrix; and tissue factor, which can trigger thrombosis (Ross (1993) *Nature* 362:801-809; Quin *et al.* (1987) *Proc Natl Acad Sci* 84:2995-2998). Thus, cholesterol-loaded macrophages which occur in abundance in most stages of the atherosclerotic plaque formation contribute to inception of the atherosclerotic process and to eventual plaque rupture and occlusive thrombus.

During Ox-LDL uptake, macrophages produce cytokines and growth factors that elicit further cellular events that modulate atherogenesis such as smooth muscle cell proliferation and production of extracellular matrix. Additionally, these macrophages may activate genes involved in inflammation including inducible nitric oxide synthase. Thus, genes differentially expressed during foam cell formation may reasonably be expected to be markers of the atherosclerotic process.

The present invention provides a method of high-throughput screening using a plurality of probes and purified polynucleotides in a diagnostic context as markers of atherosclerosis and other cardiovascular disorders.

SUMMARY OF THE INVENTION

The present invention provides a composition comprising a plurality of polynucleotides differentially expressed in foam cell development selected from SEQ ID NOs:1-276 as presented in the Sequence Listing. In one embodiment, each polynucleotide is an early marker of foam cell formation and is either upregulated, SEQ ID NOs:1-55, or downregulated, SEQ ID NOs:171-196. In a second embodiment, each polynucleotide is differentially expressed greater than 3-fold and is either upregulated, SEQ ID NOs:47-67, or downregulated, SEQ ID NOs:194-213. Further, the invention encompasses complements of the polynucleotides and immobilization of the polynucleotides on a substrate.

The invention provides a high throughput method for detecting altered expression of one or more polynucleotides in a sample. The method comprises hybridizing the polynucleotide composition with the sample, thereby forming one or more hybridization complexes; detecting the hybridization complexes; and comparing the hybridization complexes with those of a standard, wherein each difference in the size and intensity of a hybridization complex indicates altered expression of a

polynucleotide in the sample. The sample can be from a subject with atherosclerosis and comparison with a standard defines early, mid, and late stages of that disease.

The invention also provides a high throughput method of screening a library of molecules or compounds to identify a ligand. The method comprises combining the polynucleotide composition with
5 a library of molecules or compounds under conditions to allow specific binding; and detecting specific binding, thereby identifying a ligand. Libraries of molecules or compounds are selected from DNA molecules, RNA molecules, peptide nucleic acids (PNAs), mimetics, peptides, and proteins. The invention additionally provides a method for purifying a ligand, the method comprising combining a polynucleotide of the invention with a sample under conditions which allow specific binding, recovering
10 the bound polynucleotide, and separating the polynucleotide from the ligand, thereby obtaining purified ligand.

The invention also provides a method of obtaining an extended or full length gene from a library of expressed or genomic nucleic acid sequences. The method comprises arranging individual library sequences on a substrate; hybridizing a polynucleotide selected from the Sequence Listing with
15 the library sequences under conditions which allow specific binding; detecting hybridization between the polynucleotide and a sequence; and isolating the library sequence, thereby obtaining the extended or full length gene.

The present invention further provides a substantially purified polynucleotide selected from SEQ ID NOs:35-48, 68-80, 192,193, 214-224 as presented in the Sequence Listing. The invention also
20 provides an expression vector containing the polynucleotide, a host cell containing the expression vector, and a method for producing a protein comprising culturing the host cell under conditions for the expression of protein and recovering the protein from the host cell culture.

The present invention further provides a protein encoded by a polynucleotide of the invention. The invention also provides a high-throughput method for screening a library of molecules or
25 compounds to identify at least one ligand which specifically binds the protein. The method comprises combining the protein or a portion thereof with the library of molecules or compounds under conditions to allow specific binding and detecting specific binding, thereby identifying a ligand which specifically binds the protein. Libraries of molecules or compounds are selected from DNA molecules, RNA molecules, PNAs, mimetics, peptides, proteins, agonists, antagonists, antibodies or their fragments,
30 immunoglobulins, inhibitors, drug compounds, and pharmaceutical agents. The invention further provides for using a protein to purify a ligand. The method comprises combining the protein or a portion thereof with a sample under conditions to allow specific binding, recovering the bound protein, and separating the protein from the ligand, thereby obtaining purified ligand. The invention also provides a pharmaceutical composition comprising the protein in conjunction with a pharmaceutical

carrier and a purified antibody that specifically binds to the protein.

DESCRIPTION OF THE TABLES

A portion of the disclosure of this patent document contains material which is subject to copyright protection. The copyright owner has no objection to the facsimile reproduction by anyone of the patent document or the patent disclosure, as it appears in the Patent and Trademark Office patent file or records, but otherwise reserves all copyright rights whatsoever.

The Sequence Listing is a compilation of polynucleotides obtained by sequencing clone inserts (isolates) of different cDNAs and identified by hybrid complex formation using the cDNAs as probes on a microarray. Each sequence is identified by a sequence identification number (SEQ ID NO) and by an Incyte ID number. The Incyte ID number represents the gene sequence that contains the clone insert.

Table 1 shows the differentially expressed genes associated with foam cell development identified by cluster analysis. Column 1 shows the SEQ ID NO, column 2 shows the Incyte ID number, and column 3 shows the gene annotation. Columns 4 through 10 show the normalized differential expression, and column 11 shows the cluster to which the gene was assigned.

Figures 1A and 1B show graphs of the average normalized expression pattern over the time points for genes in each cluster. Clusters 1 through 4 contain genes which are up-regulated at days 1, 2, or 4. Clusters 5 and 6 contain genes that are down-regulated at later time points, and cluster 7 contains genes that are up-regulated at 8 hours.

Table 2 shows an identification map for each sequence. Column 1 shows the SEQ ID NO, and column 2 shows the Incyte ID number. Column 3 shows the Clone number of the Incyte clone represented on the UNIGEM V 2.0 microarray. Columns 4 and 5 show the START and STOP sites for the clone insert sequence relative to the gene sequence identified in column 2 and shown in the Sequence Listing.

Table 3 is a list of the genes that show differential expression early in foam cell differentiation. Column 1 shows the SEQ ID NO, column 2 shows the Incyte ID number, and column 3 shows the gene annotation. Columns 4 through 10 show the differential expression values for each time point. Columns 11 and 12 show the maximum change in expression up or down, respectively, over the time course. Column 12 shows the maximum difference seen over the time course.

Table 4 is a list of the genes that show greater than 3-fold differential expression during foam cell differentiation. Column 1 shows the SEQ ID NO, column 2 shows the Incyte ID number, and column 3 shows the gene annotation. Columns 4 through 10 show the differential expression values for each time point. Columns 11 and 12 show the maximum change in expression up or down, respectively, over the time course. Column 12 shows the maximum difference seen over the time

course.

DETAILED DESCRIPTION OF THE INVENTION

Before the nucleic acid sequences and methods are presented, it is to be understood that this invention is not limited to the particular machines, methods, and materials described. Although
5 particular embodiments are described, machines, methods, and materials similar or equivalent to these embodiments may be used to practice the invention. The preferred machines, methods, and materials set forth are not intended to limit the scope of the invention which is limited only by the appended claims.

The singular forms "a", "an", and "the" include plural reference unless the context clearly
10 dictates otherwise. All technical and scientific terms have the meanings commonly understood by one of ordinary skill in the art. All publications are incorporated by reference for the purpose of describing and disclosing the cell lines, vectors, and methodologies which are presented and which might be used in connection with the invention. Nothing in the specification is to be construed as an admission that the invention is not entitled to antedate such disclosure by virtue of prior invention.

15 Definitions

"Amplification" refers to the production of additional copies of a nucleotide sequence and is carried out using polymerase chain reaction (PCR) technologies well known in the art.

"Complementary" describes the relationship between two single-stranded nucleotide sequences that anneal by base-pairing (5'-A-G-T-3' pairs with its complement 3'-T-C-A-5').

20 "E-value" refers to the statistical probability that a match between two sequences occurred by chance.

"Derivative" refers to a polynucleotide or a polypeptide that has been subjected to a chemical modification. Illustrative of such modifications would be replacement of a hydrogen by, for example, an acetyl, acyl, alkyl, amino, formyl, or morpholino group. Derivative polynucleotides may encode
25 polypeptides that retain the essential biological characteristics (such as catalytic and regulatory domains) of naturally occurring polypeptides.

"Fragment" refers to at least 18 consecutive nucleotides of a polynucleotide of the Sequence Listing or its complement. A "unique" fragment refers to at least 18 consecutive nucleotides of a particular polynucleotide or its complement that is specific to a polynucleotide of the Sequence Listing
30 and that under hybridization conditions would not detect related polynucleotides in which it does not appear.

"Homology" refers to sequence similarity between a reference sequence and at least a fragment of a polynucleotide or a portion of a polypeptide.

"Hybridization complex" refers to a complex between two polynucleotides by virtue of the

formation of hydrogen bonds between purines and pyrimidines.

"Immunological activity" is the capability of the natural, recombinant, or synthetic polypeptide or portion thereof to induce in an animal a specific immune response that results in the production of antibodies.

5 "Ligand" refers to any molecule, agent, or compound which will bind specifically to a complementary site on a polynucleotide or protein. Such ligands stabilize or modulate the activity of polynucleotides or proteins of the invention and may be composed of at least one of the following: inorganic and organic substances including nucleic acids, proteins, carbohydrates, fats, and lipids.

"Microarray" refers to an ordered arrangement of hybridizable elements on a substrate. The
10 elements are arranged so that there are a "plurality" of elements, preferably more than one element, more preferably at least 100 elements, and even more preferably at least 1,000 elements, and most preferably at least 10,000 on a 1 cm² substrate. The maximum number of elements is unlimited, but is at least 100,000 elements. Furthermore, the hybridization signal from each of the elements is individually distinguishable. In the present and preferred embodiment, the elements comprise
15 polynucleotide probes.

"Modulates" refers to any change in activity (increased or decreased; biological, chemical, or immunological) or lifespan resulting from specific binding between a molecule and a polynucleotide or polypeptide of the invention.

"Oligonucleotide" or "oligomer" refers to a nucleotide sequence of at least about 15 nucleotides
20 to as many as about 60 nucleotides, preferably about 18 to 30 nucleotides, and most preferably about 20 to 25 nucleotides that are used as a "primer" or "amplimer" in the polymerase chain reaction (PCR) or as an array element.

"Peptide nucleic acid" (PNA) refers to a DNA mimic in which nucleotide bases are attached to a pseudopeptide backbone to increase stability. PNAs, also designated antigene agents, can prevent
25 gene expression by hybridizing to complementary messenger RNA.

"Polynucleotide" refers to an oligonucleotide, nucleotide sequence, nucleic acid molecule, DNA molecule, or any fragment or complement thereof. It may be DNA or RNA of genomic or synthetic origin, double-stranded or single-stranded, coding and/or noncoding, an exon or an intron of a genomic DNA molecule, or combined with carbohydrate, lipids, protein or inorganic elements or substances.

30 "Portion" refers to at least six contiguous amino acids of a polypeptide encoded by a polynucleotide of the Sequence Listing. A portion may represent an amino acid sequence that is conserved among related proteins (e.g., a catalytic domain such as a kinase domain).

"Post-translational modification" of a polypeptide may involve lipidation, glycosylation, phosphorylation, acetylation, racemization, proteolytic cleavage, and the like. These processes may

occur synthetically or biochemically. Biochemical modifications will vary by cellular location, cell type, pH, enzymatic milieu, and the like.

“Probe” refers to a polynucleotide or a fragment thereof that hybridizes to a nucleic acid molecule in a sample or on a substrate. A probe is used to detect, amplify, or quantify cDNAs, endogenous genes, or transcript mRNAs by employing conventional, molecular biology techniques. As used herein, probes are the reporter molecule of hybridization reactions including Southern, northern, in situ, dot blot, array, and like technologies.

“Protein” refers to a protein or any portion thereof including a polypeptide or an oligopeptide. A portion of a polypeptide generally retains biological or immunogenic characteristics of a native protein. An “oligopeptide” is an amino acid sequence of at least about 5 residues, more preferably 10 residues and most preferably about 15 residues that are immunogenic and are used as part of a fusion protein to produce an antibody.

“Purified” refers to polynucleotides, polypeptides, antibodies, and the like, that are isolated from at least one other component with which they are naturally associated.

“Sample” is used herein in its broadest sense. A sample containing polynucleotides, polypeptides, antibodies and the like may comprise a bodily fluid; a soluble fraction of a cell preparation, or media in which cells were grown; a chromosome, an organelle, or membrane isolated or extracted from a cell; genomic DNA, RNA, or cDNA in solution or bound to a substrate; a cell; a tissue; a tissue print; a fingerprint, skin or hair; and the like.

“Specific binding” or “specifically binding” refers to the interaction between two molecules. In the case of a polynucleotide, specific binding may involve hydrogen bonding between sense and antisense strands or between one strand and a protein which affects its replication or transcription, intercalation of a molecule or compound into the major or minor groove of the DNA molecule, or interaction with at least one molecule which functions as a transcription factor, enhancer, repressor, and the like. In the case of a polypeptide, specific binding may involve interactions with polynucleotides, as described above or with molecules or compounds such as agonists, antibodies, antagonists, and the like. Specific binding is dependent upon the presence of structural features that allow appropriate chemical or molecular interactions between molecules.

“Substrate” refers to any rigid or semi-rigid support to which molecules or compounds are bound and includes membranes, filters, chips, slides, wafers, fibers, magnetic or nonmagnetic beads, gels, capillaries or other tubing, plates, polymers, and microparticles with a variety of surface forms including wells, trenches, pins, channels and pores.

The Invention

The present invention provides a composition comprising a plurality of polynucleotides,

wherein each polynucleotide is differentially expressed in macrophages as they differentiate into foam cells. The plurality of polynucleotides comprise at least a fragment of the identified sequences, SEQ ID NOs:1-276, as presented in the Sequence Listing. Additionally, the invention provides a subset of polynucleotides whose expression is upregulated, SEQ ID NOs:1-55, or downregulated, SEQ ID NOs:171-196, early in foam cell formation. The invention also provides a subset of polynucleotides whose expression is upregulated, SEQ ID NOs:47-67, or downregulated, SEQ ID NOs:194-213, greater than 3-fold during foam cell formation. The invention also provides novel polynucleotides whose expression is upregulated, SEQ ID NOs:35-48 and 68-80, or downregulated, SEQ ID NOs:192, 193, and 214-222, during foam cell development.

10 Method for Selecting Polynucleotides

Human THP-1 cells (American Type Culture Collection, Manassas VA) were grown in serum-containing medium and differentiated with 12-0-tetradecanoyl-phorbol-13-acetate (Research Biochemical International, Natick MA) for 24 hours. Cells were then cultured either in the presence or absence of Ox-LDL from time points ranging from 30 minutes to 4 days. Poly (A) RNA from cultured cells was prepared for expression profiling after 0, 0.5, 2.5, 8, 24, 48, and 96 hours exposure to Ox-LDL. Poly(A) RNA from experimental and control cells was labeled with separate fluorescent dyes and hybridized in time-matched pairs on UNIGEM V 2.0 arrays (Incyte Pharmaceuticals, Palo Alto CA).

Agglomerative cluster analysis was used to identify response patterns and to establish relationships between different gene expression profiles. Each gene measurement was normalized by dividing the expression ratios by the maximum value for each time series. The clustering process defined a hierarchical tree with the number of branches intersecting at each branch level of the tree equal to the number of clusters at that level. Division of the tree at branch level 5 divided the genes into 7 clusters of gene expression containing 276 differentially expressed genes and splice variants, SEQ ID NOs:1-276.

Table 1 shows the differentially expressed genes and splice variants associated with foam cell development identified by cluster analysis. Column 1 shows the SEQ ID NO, column 2 shows the Incyte ID number, and column 3 shows the gene annotation. Columns 4 through 10 show the normalized differential expression; each gene has a maximum value of 1.0. The background shading indicates the relative expression in response to Ox-LDL; white represents relative expression ranging from 0-25% of maximum for that particular gene; light gray from 26-50%; dark gray from 51-75%; black from 76-100%. Column 11 shows the cluster to which the gene was assigned.

Figure 1 shows a graph of the average normalized expression pattern over the time points for all the genes in each cluster. Clusters 1 through 4 contain genes which are up-regulated at days 1, 2, or

4. Clusters 5 and 6 contain genes that are down-regulated at later time points, and cluster 7 contains genes that are up-regulated at 8 hours.

Table 2 shows an ID map for each SEQ ID NO. Column 1 shows the SEQ ID NO and column 2 shows the Incyte ID number. Column 3 shows the Clone number of the Incyte clone represented on the UNIGEM V 2.0 microarray. Columns 4 and 5 show the START and STOP sites for the clone insert sequence relative to the gene sequence identified in column 2.

Table 3 is a list of the genes that show differential expression early in foam cell differentiation. Column 1 shows the SEQ ID NO, column 2 shows the Incyte ID number, and column 3 shows the gene annotation. Columns 4 through 10 show the differential expression values for each time point. Values represent treated sample divided by time matched untreated sample. Columns 11 and 12 show the maximum change in expression up or down, respectively, over the time course. Column 12 shows the maximum difference seen over the time course.

Table 4 is a list of the genes that show greater than 3-fold differential expression during foam cell differentiation. Column 1 shows the SEQ ID NO, column 2 shows the Incyte ID number, and column 3 shows the gene annotation. Columns 4 through 10 show the differential expression values for each time point. Values represent treated sample divided by time matched untreated sample. Columns 11 and 12 show the maximum change in expression up or down, respectively, over the time course. Column 12 shows the maximum difference seen over the time course.

The polynucleotides of the invention can be genomic DNA, cDNA, mRNA, or any RNA-like or DNA-like material such as peptide nucleic acids, branched DNAs and the like. Polynucleotide probes can be sense or antisense strand. Where targets are double stranded, probes may be either sense or antisense strands. Where targets are single stranded, probes are complementary single strands. In one embodiment, polynucleotides are cDNAs. In another embodiment, polynucleotides are plasmids. In the case of plasmids, the sequence of interest is the cDNA insert.

Polynucleotides can be prepared by a variety of synthetic or enzymatic methods well known in the art. Polynucleotides can be synthesized, in whole or in part, using chemical methods well known in the art (Caruthers *et al.* (1980) *Nucleic Acids Symp. Ser.* (7)215-233). Alternatively, polynucleotides can be produced enzymatically or recombinantly, by *in vitro* or *in vivo* transcription.

Nucleotide analogs can be incorporated into polynucleotide probes by methods well known in the art. The only requirement is that the incorporated nucleotide analogs of the probe must base pair with target nucleotides. For example, certain guanine nucleotides can be substituted with hypoxanthine which base pairs with cytosine residues. However, these base pairs are less stable than those between guanine and cytosine. Alternatively, adenine nucleotides can be substituted with 2, 6-diaminopurine which can form stronger base pairs with thymidine than those between adenine and thymidine.

Additionally, polynucleotides can include nucleotides that have been derivatized chemically or enzymatically. Typical chemical modifications include derivatization with acyl, alkyl, aryl or amino groups.

Polynucleotides can be synthesized on a substrate. Synthesis on the surface of a substrate may
5 be accomplished using a chemical coupling procedure and a piezoelectric printing apparatus as described by Baldeschweiler *et al.* (PCT publication WO95/251116). Alternatively, the polynucleotides can be synthesized on a substrate surface using a self-addressable electronic device that controls when reagents are added as described by Heller *et al.* (USPN 5,605,662; incorporated herein by reference).

10 Complementary DNA (cDNA) can be arranged and then immobilized on a substrate. Polynucleotides can be immobilized by covalent means such as by chemical bonding procedures or UV irradiation. In one such method, a cDNA is bound to a glass surface which has been modified to contain epoxide or aldehyde groups. In another case, a cDNA probe is placed on a polylysine coated surface and then UV cross-linked as described by Shalon *et al.* (WO95/35505). In yet another method,
15 a DNA is actively transported from a solution to a given position on a substrate by electrical means (Heller *et al.*, *supra*). Alternatively, polynucleotides, clones, plasmids or cells can be arranged on a filter. In the latter case, cells are lysed, proteins and cellular components degraded, and the DNA is coupled to the filter by UV cross-linking.

Furthermore, polynucleotides do not have to be directly bound to the substrate, but rather can
20 be bound to the substrate through a linker group. The linker groups are typically about 6 to 50 atoms long to provide exposure of the attached probe. Preferred linker groups include ethylene glycol oligomers, diamines, diacids and the like. Reactive groups on the substrate surface react with a terminal group of the linker to bind the linker to the substrate. The other terminus of the linker is then bound to the polynucleotide.

25 Polynucleotides can be attached to a substrate by sequentially dispensing reagents for probe synthesis on the substrate surface or by dispensing preformed DNA fragments to the substrate surface. Typical dispensers include a micropipette delivering solution to the substrate with a robotic system to control the position of the micropipette with respect to the substrate. There can be a multiplicity of dispensers so that reagents can be delivered to the reaction regions efficiently.

30 Use of the Polynucleotides

The polynucleotide of the present invention may be used for a variety of purposes. For example, the composition of the invention may be used as elements on a microarray. The microarray can be used in high-throughput methods such as for detecting a related polynucleotide in a sample, screening libraries of molecules or compounds to identify a ligand, or diagnosing a particular

cardiovascular condition, disease, or disorder such as atherosclerosis. Alternatively, a polynucleotide complementary to a given sequence of the sequence listing can inhibit or inactivate a therapeutically relevant gene related to the polynucleotide.

When the composition of the invention is employed as elements on a microarray, the polynucleotide elements are organized in an ordered fashion so that each element is present at a specified location on the substrate. Because the elements are at specified locations on the substrate, the hybridization patterns and intensities, which together create a unique expression profile, can be interpreted in terms of expression levels of particular genes and can be correlated with a particular metabolic process, condition, disorder, disease, stage of disease, or treatment.

10

Hybridization

The polynucleotides or fragments or complements thereof of the present invention may be used in various hybridization technologies. The polynucleotides may be naturally occurring, recombinant, or chemically synthesized; based on genomic or cDNA sequences; and labeled using a variety of reporter molecules by either PCR or enzymatic techniques. Commercial kits are available for labeling and cleanup of such polynucleotides or probes. Radioactive (Amersham Pharmacia Biotech), fluorescent (Operon Technologies, Alameda CA), and chemiluminescent labeling (Promega, Madison WI), are well known in the art. Alternatively, a polynucleotide is cloned into a commercially available vector, and probes are produced by transcription. The probe is synthesized and labeled by addition of an appropriate polymerase, such as T7 or SP6 polymerase, and at least one labeled nucleotide.

A probe may be designed or derived from unique regions of the polynucleotide, such as the 3' untranslated region or from a conserved motif, and used in protocols to identify naturally occurring molecules encoding the same polypeptide, allelic variants, or related molecules. The probe may be DNA or RNA, is usually single stranded and should have at least 50% sequence identity to any of the nucleic acid sequences. The probe may comprise at least 18 contiguous nucleotides of a polynucleotide. Such a probe may be used under hybridization conditions that allow binding only to an identical sequence or under conditions that allow binding to a related sequence with at least one nucleotide substitution or deletion. Discovery of related sequences may also be accomplished using a pool of degenerate probes and appropriate hybridization conditions. Generally, a probe for use in Southern or northern hybridizations may be from about 400 to about 4000 nucleotides long. Such probes may be single-stranded or double-stranded and may have high binding specificity in solution-based or substrate-based hybridizations. A probe may also be an oligonucleotide that is used to detect a polynucleotide of the invention in a sample by PCR.

The stringency of hybridization is determined by G+C content of the probe, salt concentration,

and temperature. In particular, stringency is increased by reducing the concentration of salt or raising the hybridization temperature. In solutions used for some membrane based hybridizations, addition of an organic solvent such as formamide allows the reaction to occur at a lower temperature.

Hybridization may be performed with buffers, such as 5x saline sodium citrate (SSC) with 1% sodium dodecyl sulfate (SDS) at 60°C, that permits the formation of a hybridization complex between nucleic acid sequences that contain some mismatches. Subsequent washes are performed with buffers such as 0.2xSSC with 0.1% SDS at either 45°C (medium stringency) or 65°- 68°C (high stringency). At high stringency, hybridization complexes will remain stable only where the polynucleotides are completely complementary. In some membrane-based hybridizations, preferably 35% or most preferably 50%, formamide may be added to the hybridization solution to reduce the temperature at which hybridization is performed. Background signals may be reduced by the use of detergents such as Sarkosyl or Triton X-100 (Sigma Aldrich, St. Louis MO) and a blocking agent such as denatured salmon sperm DNA. Selection of components and conditions for hybridization are well known to those skilled in the art and are reviewed in Ausubel (supra, pp. 6.11-6.19, 14.11-14.36, and A1-43).

Dot-blot, slot-blot, low density and high density arrays are prepared and analyzed using methods known in the art. Probes or array elements from about 18 consecutive nucleotides to about 5000 consecutive nucleotides are contemplated by the invention and used in array technologies. The preferred number of probes or array elements is at least about 40,000; a more preferred number is at least about 18,000; an even more preferred number is at least about 10,000; and a most preferred number is at least about 600 to about 800. The array may be used to monitor the expression level of large numbers of genes simultaneously and to identify genetic variants, mutations, and SNPs. Such information may be used to determine gene function; to understand the genetic basis of a disorder; to diagnose a disorder; and to develop and monitor the activities of therapeutic agents being used to control or cure a disorder. (See, e.g., USPN 5,474,796; PCT application WO95/11995; PCT application WO95/35505; USPN 5,605,662; and USPN 5,958,342.)

Screening Assays

A polynucleotide may be used to screen a library or a plurality of molecules or compounds for a ligand with specific binding affinity. The ligands may be DNA molecules, RNA molecules, PNAs, peptides, proteins such as transcription factors, enhancers, repressors, and other proteins that regulate the activity, replication, transcription, or translation of the polynucleotide in the biological system. The assay involves combining the polynucleotide or a fragment thereof with the molecules or compounds under conditions that allow specific binding and detecting the bound polynucleotide to identify at least one ligand that specifically binds the polynucleotide.

In one embodiment, the polynucleotide of the invention may be incubated with a library of

isolated and purified molecules or compounds and binding activity determined by methods well known in the art, e.g., a gel-retardation assay (USPN 6,010,849) or a reticulocyte lysate transcriptional assay. In another embodiment, the polynucleotide may be incubated with nuclear extracts from biopsied and/or cultured cells and tissues. Specific binding between the polynucleotide and a molecule or compound in the nuclear extract is initially determined by gel shift assay and may be later confirmed by raising antibodies against that molecule or compound. When these antibodies are added into the assay, they cause a supershift in the gel-retardation assay.

In another embodiment, the polynucleotide may be used to purify a molecule or compound using affinity chromatography methods well known in the art. In one embodiment, the polynucleotide is chemically reacted with cyanogen bromide groups on a polymeric resin or gel. Then a sample is passed over and reacts with or binds to the polynucleotide. The molecule or compound which is bound to the polynucleotide may be released from the polynucleotide by increasing the salt concentration of the flow-through medium and collected.

Purification of Ligand

The polynucleotide or a fragment thereof may be used to purify a ligand from a sample. A method for using a mammalian polynucleotide or a fragment thereof to purify a ligand would involve combining the polynucleotide or a fragment thereof with a sample under conditions to allow specific binding, recovering the bound polynucleotide, and using an appropriate agent to separate the polynucleotide from the purified ligand.

20 Protein Production and Uses

The polynucleotides of this application or their full length cDNAs may be used to produce purified polypeptides using recombinant DNA technologies described herein and taught in Ausubel (supra; pp. 16.1-16.62). One of the advantages of producing polypeptides by these procedures is the ability to obtain highly-enriched sources of the polypeptides thereby simplifying purification procedures. The present invention also encompasses amino acid substitutions, deletions or insertions made on the basis of similarity in polarity, charge, solubility, hydrophobicity, hydrophilicity, and/or the amphipathic nature of the residues involved. Such substitutions may be conservative in nature when the substituted residue has structural or chemical properties similar to the original residue (e.g., replacement of leucine with isoleucine or valine) or they may be nonconservative when the replacement residue is radically different (e.g., a glycine replaced by a tryptophan). Computer programs included in LASERGENE software (DNASTAR, Madison WI), MACVECTOR software (Genetics Computer Group, Madison WI) and RasMol software (www.umass.edu/microbio/rasmol) may be used to help determine which and how many amino acid residues in a particular portion of the polypeptide may be substituted, inserted, or deleted without abolishing biological or immunological

activity.

Expression of Encoded Proteins

Expression of a particular cDNA may be accomplished by cloning the cDNA into an appropriate vector and transforming this vector into an appropriate host cell. The cloning vector used for the construction of the human and rat cDNA libraries may also be used for expression. Such vectors usually contain a promoter and a polylinker useful for cloning, priming, and transcription. An exemplary vector may also contain the promoter for β -galactosidase, an amino-terminal methionine and the subsequent seven amino acid residues of β -galactosidase. The vector may be transformed into an appropriate host strain of *E. coli*. Induction of the isolated bacterial strain with isopropylthiogalactoside (IPTG) using standard methods will produce a fusion protein that contains an N terminal methionine, the first seven residues of β -galactosidase, about 15 residues of linker, and the polypeptide encoded by the cDNA.

The cDNA may be shuttled into other vectors known to be useful for expression of protein in specific hosts. Oligonucleotides containing cloning sites and fragments of DNA sufficient to hybridize to stretches at both ends of the cDNA may be chemically synthesized by standard methods. These primers may then be used to amplify the desired fragments by PCR. The fragments may be digested with appropriate restriction enzymes under standard conditions and isolated using gel electrophoresis. Alternatively, similar fragments are produced by digestion of the cDNA with appropriate restriction enzymes and filled in with chemically synthesized oligonucleotides. Fragments of the coding sequence from more than one gene may be ligated together and expressed.

Signal sequences that dictate secretion of soluble proteins are particularly desirable as component parts of a recombinant sequence. For example, a chimeric protein may be expressed that includes one or more additional purification-facilitating domains. Such domains include, but are not limited to, metal-chelating domains that allow purification on immobilized metals, protein A domains that allow purification on immobilized immunoglobulin, and the domain utilized in the FLAGS extension/affinity purification system (Immunex, Seattle WA). The inclusion of a cleavable-linker sequence such as ENTEROKINASEMAX (Invitrogen, San Diego CA) between the polypeptide and the purification domain may also be used to recover the polypeptide.

Suitable expression hosts may include, but are not limited to, mammalian cells such as Chinese Hamster Ovary (CHO) and human 293 cells, insect cells such as Sf9 cells, yeast cells such as *Saccharomyces cerevisiae*, and bacteria such as *E. coli*. For each of these cell systems, a useful expression vector may also include an origin of replication and one or two selectable markers to allow selection in bacteria as well as in a transfected eukaryotic host. Vectors for use in eukaryotic expression hosts may require the addition of 3' poly(A) tail if the polynucleotide lacks poly(A).

Additionally, the vector may contain promoters or enhancers that increase gene expression. Most promoters are host specific, and they include MMTV, SV40 or metallothionein promoters for CHO cells; trp, lac, tac or T7 promoters for bacterial hosts; or alpha factor, alcohol oxidase or PGH promoters for yeast. Adenoviral vectors with enhancers such as the rous sarcoma virus (RSV) enhancer or retroviral vectors with promoters such as the long terminal repeat (LTR) promoter may be used to drive protein expression in mammalian cell lines. Once homogeneous cultures of recombinant cells are obtained, large quantities of a secreted soluble polypeptide may be recovered from the conditioned medium and analyzed using chromatographic methods well known in the art. An alternative method for the production of large amounts of secreted protein involves the transformation of mammalian embryos and the recovery of the recombinant protein from milk produced by transgenic cows, goats, sheep, and the like.

In addition to recombinant production, polypeptides or portions thereof may be produced using solid-phase techniques (Stewart *et al.* (1969) Solid-Phase Peptide Synthesis, WH Freeman, San Francisco CA; Merrifield (1963) *J Am Chem Soc* 5:2149-2154), manually, or using machines such as the ABI 431A Peptide synthesizer (PE Biosystems, Norwalk CT). Polypeptides produced by any of the above methods may be used as pharmaceutical compositions to treat disorders associated with underexpression.

Screening Assays

A protein or a portion thereof encoded by the polynucleotide may be used to screen libraries or a plurality of molecules or compounds for a ligand with specific binding affinity or to purify a molecule or compound from a sample. The polypeptide or portion thereof employed in such screening may be free in solution, affixed to an abiotic or biotic substrate, or located intracellularly. For example, viable or fixed prokaryotic host cells that are stably transformed with recombinant nucleic acids that have expressed and positioned a polypeptide on their cell surface can be used in screening assays. The cells are screened against libraries or a plurality of ligands and the specificity of binding or formation of complexes between the expressed polypeptide and the ligand may be measured. The ligands may be DNA, RNA, or PNA molecules, agonists, antagonists, antibodies, immunoglobulins, inhibitors, peptides, pharmaceutical agents, proteins, drugs, or any other test molecule or compound that specifically binds the polypeptide. An exemplary assay involves combining the mammalian polypeptide or a portion thereof with the molecules or compounds under conditions that allow specific binding and detecting the bound polypeptide to identify at least one ligand that specifically binds the polypeptide.

This invention also contemplates the use of competitive drug screening assays in which neutralizing antibodies capable of binding the polypeptide specifically compete with a test compound capable of binding to the polypeptide or oligopeptide or fragment thereof. One method for high

throughput screening using very small assay volumes and very small amounts of test compound is described in USPN 5,876,946. Molecules or compounds identified by screening may be used in a mammalian model system to evaluate their toxicity, diagnostic, or therapeutic potential.

Purification of a Ligand

5 The polypeptide or a portion thereof may be used to purify a ligand from a sample. A method for using a mammalian polypeptide or a portion thereof to purify a ligand would involve combining the polypeptide or a portion thereof with a sample under conditions to allow specific binding, recovering the bound polypeptide, and using an appropriate chaotropic agent to separate the polypeptide from the purified ligand.

10 **Production of Antibodies**

A polypeptide encoded by a polynucleotide of the invention may be used to produce specific antibodies. Antibodies may be produced using an oligopeptide or a portion of the polypeptide with inherent immunological activity. Methods for producing antibodies include: 1) injecting an animal (usually goats, rabbits, or mice) with the polypeptide, or a portion or an oligopeptide thereof, to induce
15 an immune response; 2) engineering hybridomas to produce monoclonal antibodies; 3) inducing in vivo production in the lymphocyte population; or 4) screening libraries of recombinant immunoglobulins. Recombinant immunoglobulins may be produced as taught in USPN 4,816,567.

Antibodies produced using the polypeptides of the invention are useful for the diagnosis of prepathologic disorders as well as the diagnosis of chronic or acute diseases characterized by
20 abnormalities in the expression, amount, or distribution of the polypeptide. A variety of protocols for competitive binding or immunoradiometric assays using either polyclonal or monoclonal antibodies specific for polypeptides are well known in the art. Immunoassays typically involve the formation of complexes between a polypeptide and its specific binding molecule or compound and the measurement of complex formation. A two-site, monoclonal-based immunoassay utilizing monoclonal antibodies
25 reactive to two noninterfering epitopes on a specific polypeptide is preferred, but a competitive binding assay may also be employed.

Immunoassay procedures may be used to quantify expression of the polypeptide in cell cultures, in subjects with a particular disorder or in model animal systems under various conditions. Increased or decreased production of polypeptides as monitored by immunoassay may contribute to
30 knowledge of the cellular activities associated with developmental pathways, engineered conditions or diseases, or treatment efficacy. The quantity of a given polypeptide in a given tissue may be determined by performing immunoassays on freeze-thawed detergent extracts of biological samples and comparing the slope of the binding curves to binding curves generated by purified polypeptide.

Labeling of Molecules for Assay

A wide variety of reporter molecules and conjugation techniques are known by those skilled in the art and may be used in various polynucleotide, polypeptide or antibody arrays or assays. Synthesis of labeled molecules may be achieved using Promega or Amersham Pharmacia Biotech kits for incorporation of a labeled nucleotide such as ^{32}P -dCTP, Cy3-dCTP or Cy5-dCTP or amino acid such as ^{35}S -methionine. Polynucleotides, polypeptides, or antibodies may be directly labeled with a reporter molecule by chemical conjugation to amines, thiols and other groups present in the molecules using reagents such as BIODIPY or FITC (Molecular Probes, Eugene OR).

The polypeptides and antibodies may be labeled for purposes of assay by joining them, either covalently or noncovalently, with a reporter molecule that provides for a detectable signal. A wide variety of labels and conjugation techniques are known and have been reported in the scientific and patent literature including, but not limited to USPN 3,817,837; 3,850,752; 3,939,350; 3,996,345; 4,277,437; 4,275,149; and 4,366,241.

DIAGNOSTICS

The polynucleotides, or fragments thereof, may be used to detect and quantify altered gene expression; absence, presence, or excess expression of mRNAs; or to monitor mRNA levels during therapeutic intervention. Conditions, diseases or disorders associated with altered expression include atherosclerosis and associated complications. These polynucleotides can also be utilized as markers of treatment efficacy against the diseases noted above and other cardiovascular disorders, conditions, and diseases over a period ranging from several days to months. The diagnostic assay may use hybridization or amplification technology to compare gene expression in a biological sample from a patient to standard samples in order to detect altered gene expression. Qualitative or quantitative methods for this comparison are well known in the art.

For example, the polynucleotide may be labeled by standard methods and added to a biological sample from a patient under conditions for the formation of hybridization complexes. After an incubation period, the sample is washed and the amount of label (or signal) associated with hybridization complexes, is quantified and compared with a standard value. If the amount of label in the patient sample is significantly altered in comparison to the standard value, then the presence of the associated condition, disease or disorder is indicated.

In order to provide a basis for the diagnosis of a condition, disease or disorder associated with gene expression, a normal or standard expression profile is established. This may be accomplished by combining a biological sample taken from normal subjects, either animal or human, with a probe under conditions for hybridization or amplification. Standard hybridization may be quantified by comparing the values obtained using normal subjects with values from an experiment in which a known amount of a substantially purified target sequence is used. Standard values obtained in this manner may be

compared with values obtained from samples from patients who are symptomatic for a particular condition, disease, or disorder. Deviation from standard values toward those associated with a particular condition is used to diagnose that condition.

Such assays may also be used to evaluate the efficacy of a particular therapeutic treatment regimen in animal studies and in clinical trial or to monitor the treatment of an individual patient. Once the presence of a condition is established and a treatment protocol is initiated, diagnostic assays may be repeated on a regular basis to determine if the level of expression in the patient begins to approximate that which is observed in a normal subject. The results obtained from successive assays may be used to show the efficacy of treatment over a period ranging from several days to months.

10 Gene Expression Profiles

A gene expression profile comprises a plurality of polynucleotides and a plurality of detectable hybridization complexes, wherein each complex is formed by hybridization of one or more probes to one or more complementary sequences in a sample. The polynucleotide composition of the invention is used as elements on a microarray to analyze gene expression profiles. In one embodiment, the microarray is used to monitor the progression of disease. Researchers can assess and catalog the differences in gene expression between healthy and diseased tissues or cells. By analyzing changes in patterns of gene expression, disease can be diagnosed at earlier stages before the patient is symptomatic. The invention can be used to formulate a prognosis and to design a treatment regimen. The invention can also be used to monitor the efficacy of treatment. For treatments with known side effects, the microarray is employed to improve the treatment regimen. A dosage is established that causes a change in genetic expression patterns indicative of successful treatment. Expression patterns associated with the onset of undesirable side effects are avoided. This approach may be more sensitive and rapid than waiting for the patient to show inadequate improvement, or to manifest side effects, before altering the course of treatment.

25 In another embodiment, animal models which mimic a human disease can be used to characterize expression profiles associated with a particular condition, disorder or disease or treatment of the condition, disorder or disease. Novel treatment regimens may be tested in these animal models using microarrays to establish and then follow expression profiles over time. In addition, microarrays may be used with cell cultures or tissues removed from animal models to rapidly screen large numbers of candidate drug molecules, looking for ones that produce an expression profile similar to those of known therapeutic drugs, with the expectation that molecules with the same expression profile will likely have similar therapeutic effects. Thus, the invention provides the means to rapidly determine the molecular mode of action of a drug.

Assays Using Antibodies

Antibodies directed against epitopes on a protein encoded by a polynucleotide of the invention may be used in assays to quantify the amount of protein found in a particular human cell. Such assays include methods utilizing the antibody and a label to detect expression level under normal or disease conditions. The antibodies may be used with or without modification, and labeled by joining them,
5 either covalently or noncovalently, with a labeling moiety.

Protocols for detecting and measuring protein expression using either polyclonal or monoclonal antibodies are well known in the art. Examples include ELISA, RIA, and fluorescent activated cell sorting (FACS). Such immunoassays typically involve the formation of complexes between the protein and its specific antibody and the measurement of such complexes. These and other assays are
10 described in Pound (supra). The method may employ a two-site, monoclonal-based immunoassay utilizing monoclonal antibodies reactive to two non-interfering epitopes, or a competitive binding assay. (See, e.g., Coligan et al. (1997) Current Protocols in Immunology, Wiley-Interscience, New York NY; Pound, supra)

15 THERAPEUTICS

The polynucleotides of the present invention and fragments thereof can be used in gene therapy. Polynucleotides of the invention can be delivered to a target tissue, such as mononuclear phagocytes. Expression of the protein encoded by the polynucleotide may correct a disease state associated with reduction or loss of endogenous target protein. Polynucleotides may be delivered to specific cells in
20 vitro. Transformed cells are transferred in vivo to various tissues. Alternatively, polynucleotides may be delivered in vivo. Polynucleotides are delivered to cells or tissues using vectors such as retrovirus, adenovirus, adeno-associated virus, herpes simplex virus, and bacterial plasmids. Non-viral methods of gene delivery include cationic liposomes, polylysine conjugates, artificial viral envelopes, and direct injection of DNA (Anderson (1998) *Nature* 392:25-30; Dachs et al. (1997) *Oncol Res* 9:313-325; Chu
25 et al. (1998) *J Mol Med* 76(3-4):184-192; August et al. (1997) Gene Therapy (Advances in Pharmacology, Vol. 40), Academic Press, San Diego CA).

In addition, expression of a particular protein can be modulated through the specific binding of an antisense polynucleotide sequence to a nucleic acid sequence which either encodes the protein or directs its expression. The antisense polynucleotide can be DNA, RNA, or nucleic acid mimics and
30 analogs. The nucleic acid sequence can be cellular mRNA and/or genomic DNA and binding of the antisense sequence can affect translation and/or transcription, respectively. Antisense sequences can be delivered intracellularly using viral vectors or non-viral vectors as described above (Weiss et al. (1999) *Cell Mol Life Sci* 55(3):334-358; Agrawal (1996) *Antisense Therapeutics*, Humana Press Inc., Totowa NJ).

Both polynucleotides and antisense sequences can be produced ex vivo by using any of the ABI nucleic acid synthesizers or other automated systems known in the art. Polynucleotides and antisense sequences can also be produced biologically by transforming an appropriate host cell with an expression vector containing the sequence of interest.

- 5 Molecules which modulate the expression of a polynucleotide of the invention or activity of the encoded protein are useful as therapeutics for conditions and disorders associated with an immune response. Such molecules include agonists which increase the expression or activity of the polynucleotide or encoded protein, respectively; or antagonists which decrease expression or activity of the polynucleotide or encoded protein, respectively. In one aspect, an antibody which specifically binds
10 the protein may be used directly as an antagonist or indirectly as a targeting or delivery mechanism for bringing a pharmaceutical agent to cells or tissues which express the protein.

- Additionally, any of the proteins or their ligands, or complementary nucleic acid sequences may be administered in combination with other appropriate therapeutic agents. Selection of the appropriate agents for use in combination therapy may be made by one of ordinary skill in the art, according to
15 conventional pharmaceutical principles. The combination of therapeutic agents may act synergistically to affect the treatment or prevention of the conditions and disorders associated with an immune response. Using this approach, one may be able to achieve therapeutic efficacy with lower dosages of each agent, thus reducing the potential for adverse side effects. Further, the therapeutic agents may be combined with pharmaceutically-acceptable carriers including excipients and auxiliaries which
20 facilitate processing of the active compounds into preparations which can be used pharmaceutically. Further details on techniques for formulation and administration may be found in the latest edition of Remington's Pharmaceutical Sciences (Maack Publishing Co., Easton PA).

Model Systems

- Animal models may be used as bioassays where they exhibit a phenotypic response similar to
25 that of humans and where exposure conditions are relevant to human exposures. Mammals are the most common models, and most infectious agent, cancer, drug, and toxicity studies are performed on rodents such as rats or mice because of low cost, availability, lifespan, reproductive potential, and abundant reference literature. Inbred and outbred rodent strains provide a convenient model for investigation of the physiological consequences of underexpression or overexpression of genes of
30 interest and for the development of methods for diagnosis and treatment of diseases. A mammal inbred to overexpress a particular gene (for example, secreted in milk) may also serve as a convenient source of the protein expressed by that gene.

Transgenic Animal Models

Transgenic rodents that overexpress or underexpress a gene of interest may be inbred and used

to model human diseases or to test therapeutic or toxic agents. (See, e.g., USPN 5,175,383 and USPN 5,767,337.) In some cases, the introduced gene may be activated at a specific time in a specific tissue type during fetal or postnatal development. Expression of the transgene is monitored by analysis of phenotype, of tissue-specific mRNA expression, or of serum and tissue protein levels in transgenic
5 animals before, during, and after challenge with experimental drug therapies.

Embryonic Stem Cells

Embryonic (ES) stem cells isolated from rodent embryos retain the potential to form embryonic tissues. When ES cells are placed inside a carrier embryo, they resume normal development and contribute to tissues of the live-born animal. ES cells are the preferred cells used in the creation of
10 experimental knockout and knockin rodent strains. Mouse ES cells, such as the mouse 129/SvJ cell line, are derived from the early mouse embryo and are grown under culture conditions well known in the art. Vectors used to produce a transgenic strain contain a disease gene candidate and a marker gene, the latter serves to identify the presence of the introduced disease gene. The vector is transformed into ES cells by methods well known in the art, and transformed ES cells are identified and
15 microinjected into mouse cell blastocysts such as those from the C57BL/6 mouse strain. The blastocysts are surgically transferred to pseudopregnant dams, and the resulting chimeric progeny are genotyped and bred to produce heterozygous or homozygous strains.

ES cells derived from human blastocysts may be manipulated in vitro to differentiate into at least eight separate cell lineages. These lineages are used to study the differentiation of various cell
20 types and tissues in vitro, and they include endoderm, mesoderm, and ectodermal cell types that differentiate into, for example, neural cells, hematopoietic lineages, and cardiomyocytes.

Knockout Analysis

In gene knockout analysis, a region of a gene is enzymatically modified to include a non-natural intervening sequence such as the neomycin phosphotransferase gene (neo; Capecchi (1989) Science
25 244:1288-1292). The modified gene is transformed into cultured ES cells and integrates into the endogenous genome by homologous recombination. The inserted sequence disrupts transcription and translation of the endogenous gene. Transformed cells are injected into rodent blastulae, and the blastulae are implanted into pseudopregnant dams. Transgenic progeny are crossbred to obtain homozygous inbred lines that lack a functional copy of the mammalian gene.

Knockin Analysis

ES cells can be used to create knockin humanized animals (pigs) or transgenic animal models (mice or rats) of human diseases. With knockin technology, a region of a human gene is injected into animal ES cells, and the human sequence integrates into the animal cell genome. Transformed cells are injected into blastulae and the blastulae are implanted as described above. Transgenic progeny or

inbred lines are studied and treated with potential pharmaceutical agents to obtain information on treatment of the analogous human condition. These methods have been used to model several human diseases.

As described herein, the uses of the polynucleotides, provided in the Sequence Listing of this application, and their encoded polypeptides are exemplary of known techniques and are not intended to reflect any limitation on their use in any technique that would be known to the person of average skill in the art. Furthermore, the polynucleotides provided in this application may be used in molecular biology techniques that have not yet been developed, provided the new techniques rely on properties of nucleotide sequences that are currently known to the person of ordinary skill in the art, e.g., the triplet genetic code, specific base pair interactions, and the like. Likewise, reference to a method may include combining more than one method for obtaining or assembling full length cDNA sequences that will be known to those skilled in the art.

It is to be understood that the invention is not limited to the particular methodology, protocols, and reagents described, as these may vary. It is also understood that the terminology used herein is for the purpose of describing particular embodiments only, and is not intended to limit the scope of the present invention which will be limited only by the appended claims. The examples below are provided to illustrate the subject invention and are not included for the purpose of limiting the invention.

EXAMPLES

I. Construction of cDNA Libraries

RNA was purchased from Clontech Laboratories, Inc. (Palo Alto CA) or isolated from various tissues. Some tissues were homogenized and lysed in guanidinium isothiocyanate, while others were homogenized and lysed in phenol or in a suitable mixture of denaturants, such as TRIZOL reagent (Life Technologies, Rockville MD). The resulting lysates were centrifuged over CsCl cushions or extracted with chloroform. RNA was precipitated with either isopropanol or ethanol and sodium acetate, or by other routine methods.

Phenol extraction and precipitation of RNA were repeated as necessary to increase RNA purity. In most cases, RNA was treated with DNase. For most libraries, poly(A) RNA was isolated using oligo d(T)-coupled paramagnetic particles (Promega), OLIGOTEX latex particles (Qiagen, Valencia CA), or an OLIGOTEX mRNA purification kit (Qiagen). Alternatively, poly(A) RNA was isolated directly from tissue lysates using other kits, including the POLY(A)PURE mRNA purification kit (Ambion, Austin TX).

In some cases, Stratagene (La Jolla, CA) was provided with RNA and constructed the corresponding cDNA libraries. Otherwise, cDNA was synthesized and cDNA libraries were constructed with the UNIZAP vector system (Stratagene) or SUPERScript plasmid system (Life

Technologies) using the recommended procedures or similar methods known in the art. (See Ausubel, *supra*, Units 5.1 through 6.6.) Reverse transcription was initiated using oligo d(T) or random primers. Synthetic oligonucleotide adapters were ligated to double stranded cDNA, and the cDNA was digested with the appropriate restriction enzyme or enzymes. For most libraries, the cDNA was size-selected
5 (300-1000 bp) using SEPHACRYL S1000, SEPHAROSE CL2B, or SEPHAROSE CL4B column chromatography (Amersham Pharmacia Biotech, Piscataway NJ) or preparative agarose gel electrophoresis. cDNAs were ligated into compatible restriction enzyme sites of the polylinker of the PBLUESCRIPT plasmid (Stratagene), PSORT1 plasmid (Life Technologies), or PINCY plasmid (Incyte Pharmaceuticals). Recombinant plasmids were transformed into XL1-Blue, XL1-BlueMRF, or
10 SOLR competent *E. coli* cells (Stratagene) or DH5 α , DH10B, or ELECTROMAX DH10B competent *E. coli* cells (Life Technologies).

In some cases, libraries were superinfected with a 5x excess of the helper phage, M13K07, according to the method of Vieira *et al.* (1987, *Methods Enzymol.* 153:3-11) and normalized or subtracted using a methodology adapted from Soares (1994, *Proc Natl Acad Sci* 91:9228-9232),
15 Swaroop *et al.* (1991, *Nucl Acids Res* 19:1954), and Bonaldo *et al.* (1996, *Genome Research* 6:791-806). The modified Soares normalization procedure was utilized to reduce the repetitive cloning of highly expressed high abundance cDNAs while maintaining the overall sequence complexity of the library. Modification included significantly longer hybridization times which allowed for increased gene discovery rates by biasing the normalized libraries toward those infrequently expressed low-
20 abundance cDNAs which are poorly represented in a standard transcript image (Soares *et al.*, *supra*).

II. Isolation and Sequencing of cDNA Clones

Plasmids were recovered from host cells by *in vivo* excision using the UNIZAP vector system (Stratagene) or by cell lysis. Plasmids were purified using one of the following: the Magic or WIZARD Minipreps DNA purification system (Promega); the AGTC Miniprep purification kit (Edge
25 BioSystems, Gaithersburg MD); the QIAWELL 8, QIAWELL 8 Plus, or QIAWELL 8 Ultra plasmid purification systems, or the R.E.A.L. PREP 96 plasmid purification kit (QIAGEN). Following precipitation, plasmids were resuspended in 0.1 ml of distilled water and stored, with or without lyophilization, at 4°C.

Alternatively, plasmid DNA was amplified from host cell lysates using direct link PCR in a
30 high-throughput format (Rao (1994) *Anal Biochem* 216:1-14). Host cell lysis and thermal cycling steps were carried out in a single reaction mixture. Samples were processed and stored in 384-well plates, and the concentration of amplified plasmid DNA was quantified fluorometrically using PICOGREEN dye (Molecular Probes) and a FLUOROSKAN II fluorescence scanner (Labsystems Oy, Helsinki, Finland).

cDNA sequencing reactions were processed using standard methods or high-throughput instrumentation such as the ABI CATALYST 800 thermal cycler (PE Biosystems) or the DNA ENGINE thermal cycler (MJ Research, Watertown MA) in conjunction with the HYDRA microdispenser (Robbins Scientific, Sunnyvale CA) or the MICROLAB 2200 system (Hamilton, Reno NV). cDNA sequencing reactions were prepared using reagents provided by Amersham Pharmacia Biotech or supplied in ABI sequencing kits such as the ABI PRISM BIGDYE cycle sequencing kit (PE Biosystems). Electrophoretic separation of cDNA sequencing reactions and detection of labeled polynucleotides were carried out using the MEGABACE 1000 DNA sequencing system (Amersham Pharmacia Biotech); the ABI PRISM 373 or 377 sequencing system (PE Biosystems) in conjunction with standard ABI protocols and base calling software; or other sequence analysis systems known in the art. Reading frames within the cDNA sequences were identified using standard methods (reviewed in Ausubel, supra, Unit 7.7).

III. Extension of cDNA Sequences

Nucleic acid sequences were extended using Incyte cDNA clones and oligonucleotide primers. One primer was synthesized to initiate 5' extension of the known fragment, and the other, to initiate 3' extension of the known fragment. The initial primers were designed using OLIGO 4.06 software (National Biosciences), or another appropriate program, to be about 22 to 30 nucleotides in length, to have a GC content of about 50% or more, and to anneal to the target sequence at temperatures of about 68°C to about 72°C. Any stretch of nucleotides which would result in hairpin structures and primer-primer dimerizations was avoided.

Selected human cDNA libraries were used to extend the sequence. If more than one extension was necessary or desired, additional or nested sets of primers were designed. Preferred libraries are ones that have been size-selected to include larger cDNAs. Also, random primed libraries are preferred because they will contain more sequences with the 5' and upstream regions of genes. A randomly primed library is particularly useful if an oligo d(T) library does not yield a full-length cDNA.

High fidelity amplification was obtained by PCR using methods well known in the art. PCR was performed in 96-well plates using the DNA ENGINE thermal cycler (MJ Research). The reaction mix contained DNA template, 200 nmol of each primer, reaction buffer containing Mg^{2+} , $(NH_4)_2SO_4$, and β -mercaptoethanol, Taq DNA polymerase (Amersham Pharmacia Biotech), ELONGASE enzyme (Life Technologies), and Pfu DNA polymerase (Stratagene), with the following parameters for primer pair PCI A and PCI B (Incyte Pharmaceuticals): Step 1: 94°C, 3 min; Step 2: 94°C, 15 sec; Step 3: 60°C, 1 min; Step 4: 68°C, 2 min; Step 5: Steps 2, 3, and 4 repeated 20 times; Step 6: 68°C, 5 min; Step 7: storage at 4°C. In the alternative, the parameters for primer pair T7 and SK+ (Stratagene) were as follows: Step 1: 94°C, 3 min; Step 2: 94°C, 15 sec; Step 3: 57°C, 1 min; Step 4: 68°C, 2 min;

Step 5: Steps 2, 3, and 4 repeated 20 times; Step 6: 68°C, 5 min; Step 7: storage at 4°C.

The concentration of DNA in each well was determined by dispensing 100 µl PICOGREEN reagent (0.25% reagent in 1x TE, v/v; Molecular Probes) and 0.5 µl of undiluted PCR product into each well of an opaque fluorimeter plate (Corning Costar, Acton MA) and allowing the DNA to bind to the reagent. The plate was scanned in a Fluoroskan II (Labsystems Oy) to measure the fluorescence of the sample and to quantify the concentration of DNA. A 5 µl to 10 µl aliquot of the reaction mixture was analyzed by electrophoresis on a 1% agarose mini-gel to determine which reactions were successful in extending the sequence.

The extended nucleic acids were desalted and concentrated, transferred to 384-well plates, digested with CviJI cholera virus endonuclease (Molecular Biology Research, Madison WI), and sonicated or sheared prior to religation into pUC18 vector (Amersham Pharmacia Biotech). For shotgun sequencing, the digested nucleic acids were separated on low concentration (0.6 to 0.8%) agarose gels, fragments were excised, and agar digested with AGARACE enzyme (Promega). Extended clones were religated using T4 DNA ligase (New England Biolabs, Beverly MA) into pUC18 vector (Amersham Pharmacia Biotech), treated with Pfu DNA polymerase (Stratagene) to fill-in restriction site overhangs, and transfected into competent *E. coli* cells. Transformed cells were selected on antibiotic-containing media, and individual colonies were picked and cultured overnight at 37°C in 384-well plates in LB/2x carbenicillin liquid media.

The cells were lysed, and DNA was amplified by PCR using Taq DNA polymerase (Amersham Pharmacia Biotech) and Pfu DNA polymerase (Stratagene) with the following parameters: Step 1: 94°C, 3 min; Step 2: 94°C, 15 sec; Step 3: 60°C, 1 min; Step 4: 72°C, 2 min; Step 5: steps 2, 3, and 4 repeated 29 times; Step 6: 72°C, 5 min; Step 7: storage at 4°C. DNA was quantified using PICOGREEN reagent (Molecular Probes) as described above. Samples with low DNA recoveries were reamplified using the same conditions described above. Samples were diluted with 20% dimethylsulfoxide (DMSO; 1:2, v/v), and sequenced using DYENAMIC energy transfer sequencing primers and the DYENAMIC DIRECT cycle sequencing kit (Amersham Pharmacia Biotech) or the ABI PRISM BIGDYE terminator cycle sequencing kit (PE Biosystems).

IV. Assembly and Analysis of Sequences

Component nucleotide sequences from chromatograms were subjected to PHRED analysis (Phil's Revised Editing Program; Phil Green, University of Washington, Seattle WA) and assigned a quality score. The sequences having at least a required quality score were subject to various pre-processing algorithms to eliminate low quality 3' ends, vector and linker sequences, polyA tails, Alu repeats, mitochondrial and ribosomal sequences, bacterial contamination sequences, and sequences smaller than 50 base pairs.

Sequences were screened using the BLOCK 2 program (Incyte Pharmaceuticals), a motif analysis program based on sequence information contained in the SWISS-PROT and PROSITE databases (Bairoch *et al.* (1997) *Nucleic Acids Res.* 25:217-221; Attwood *et al.* (1997) *J. Chem. Inf. Comput. Sci.* 37:417-424).

- 5 Processed sequences were subjected to assembly procedures in which the sequences were assigned to bins, one sequence per bin. Sequences in each bin were assembled to produce consensus sequences, templates. Subsequent new sequences were added to existing bins using the Basic Local Alignment Search Tool (BLAST; Altschul (1993) *J. Mol. Evol.* 36:290-300; Altschul *et al.* (1990) *J. Mol. Biol.* 215:403-410; Karlin *et al.* (1988) *Proc. Natl. Acad. Sci.* 85:841-845), BLASTn (v.1.4, WashU), and CROSSMATCH software (Phil Green, *supra*). Candidate pairs were identified as all
- 10 BLAST hits having a quality score greater than or equal to 150. Alignments of at least 82% local identity were accepted into the bin. The component sequences from each bin were assembled using PHRAP (Phil's Revised Alignment Program; Phil Green, *supra*). Bins with several overlapping component sequences were assembled using DEEP PHRAP (Phil Green, *supra*).
- 15 Bins were compared against each other, and those having local similarity of at least 82% were combined and reassembled. Reassembled bins having templates of insufficient overlap (less than 95% local identity) were re-split. Assembled templates were also subjected to analysis by STITCHER/EXON MAPPER algorithms which analyzed the probabilities of the presence of splice variants, alternatively spliced exons, splice junctions, differential expression of alternative spliced genes
- 20 across tissue types, disease states, and the like. These resulting bins were subjected to several rounds of the above assembly procedures to generate the template sequences found in the LIFESEQ GOLD database (Incyte Pharmaceuticals).

- The assembled templates were annotated using the following procedure. Template sequences were analyzed using BLASTn (v2.0, NCBI) versus GBpri (GenBank version 109). "Hits" were
- 25 defined as an exact match having from 95% local identity over 200 base pairs through 100% local identity over 100 base pairs, or a homolog match having an E-value of 1×10^{-8} . The hits were subjected to frameshift FASTx versus GENPEPT (GenBank version 109). In this analysis, a homolog match was defined as having an E-value of 1×10^{-8} . The assembly method used above was described in "Database and System for Storing, Comparing and Displaying Related Biomolecular Sequence
- 30 Information," U.S.S.N. 09/276,534, filed March 25, 1999, incorporated by reference herein, and the LIFESEQ GOLD user manual (Incyte Pharmaceuticals).

Following assembly, template sequences were subjected to motif, BLAST, Hidden Markov Model (HMM; Pearson and Lipman (1988) *Proc Natl Acad Sci* 85:2444-2448; Smith and Waterman (1981) *J Mol Biol* 147:195-197), and functional analyses, and categorized in protein hierarchies using

methods described in "Database System Employing Protein Function Hierarchies for Viewing Biomolecular Sequence Data," U.S.S.N. 08/812,290, filed March 6, 1997; "Relational Database for Storing Biomolecule Information," U.S.S.N. 08/947,845, filed October 9, 1997; "Project-Based Full-Length Biomolecular Sequence Database," U.S.P.N. 5,953,727;; and "Relational Database and System
5 for Storing Information Relating to Biomolecular Sequences," U.S.S.N. 09/034,807, filed March 4, 1998, all of which are incorporated by reference herein. Template sequences may be further queried against public databases such as the GenBank rodent, mammalian, vertebrate, eukaryote, prokaryote, and human EST databases.

V. Preparation of Microarrays

10 The polynucleotides present on the human UNIGEM V 2.0 microarray (Incyte Pharmaceuticals) represent template sequences derived from the LIFESEQ GOLD assembled human sequence database (Incyte Pharmaceuticals) based on a non-redundant set of gene-oriented clusters derived from IMAGE (integrated molecular analysis of genomes and their expression) cDNA library clones and derived ESTs in the gbEST database (National Center for Biotechnology Information,
15 National Library of Medicine, Bethesda, MD). A single clone representing each particular template was used on the microarray. Polynucleotides were amplified from bacterial cells using primers complementary to vector sequences flanking the cDNA insert. Thirty cycles of PCR increased the initial quantity of polynucleotide from 1-2 ng to a final quantity greater than 5 µg . Amplified polynucleotides were then purified using SEPHACRYL-400 columns (Amersham Pharmacia Biotech).

20 Purified polynucleotides were immobilized on polymer-coated glass slides. Glass microscope slides (Corning, Corning NY) were cleaned by ultrasound in 0.1% SDS and acetone, with extensive distilled water washes between and after treatments. Glass slides were etched in 4% hydrofluoric acid (VWR Scientific Products Corporation, West Chester PA), washed extensively in distilled water, and coated with 0.05% aminopropyl silane (Sigma Aldrich, St. Louis MO) in 95% ethanol. Coated slides
25 were cured in a 110°C oven. polynucleotides were applied to the coated glass substrate using a procedure described in U.S.P.N. 5,807,522, incorporated herein by reference. One microliter of the polynucleotide at an average concentration of 100 ng/ul was loaded into the open capillary printing element by a high-speed robotic apparatus which then deposited about 5 nl of polynucleotide per slide.

Microarrays were UV-crosslinked using a STRATALINKER UV-crosslinker (Stratagene),
30 and then washed at room temperature once in 0.2% SDS and three times in distilled water. Non-specific binding sites were blocked by incubation of microarrays in 0.2% casein in phosphate buffered saline (Tropix, Bedford MA) for 30 minutes at 60°C followed by washes in 0.2% SDS and distilled water as before.

VI. Preparation of Target Polynucleotides

Human THP-1 cells (American Type Culture Collection, Manassas VA) were grown in RPMI1640 medium containing 10% fetal serum (v/v), 0.45% glucose (w/v), 10mM Hepes, 1mM sodium pyruvate, 1×10^{-5} M β -mercaptoethanol, penicillin (100 units/ml) and streptomycin (100 mg/ml). For oxidized-LDL loading experiments, cells were seeded at a density of 1×10^6 cells/ml in medium containing 12-0-tetradecanoyl-phorbol-13-acetate (Research Biochemical International, Natick MA) at 1×10^{-7} M for 24 hr. The medium was then replaced by culture medium with or without 100 μ g/ml of CuSO_4 "fully" oxidized LDL (Intracel, Rockville MD) according to the method of Hammer *et al.* (1995; Arterio Thromb Vasc Biol 15:704-713). Medium was replaced every two days during the time of culture. Cells were treated with Ox-LDL over time points ranging from 30 minutes to 4 days. During this period, cells remained adherent and had a typical speckled Nile red staining pattern. RNA was prepared for expression profiling at 0, 0.5, 2.5, and 8 hours, and 1, 2, and 4 days of Ox-LDL exposure.

Total RNA was extracted using the RNA STAT-60 kit (Tel-Test, Friendswood TX). Poly(A) RNA was purified using the POLYATRACT mRNA isolation system (Promega). Each poly(A) RNA sample was reverse transcribed using MMLV reverse-transcriptase, 0.05 μ g/ μ l oligo-dT primer (21mer), 1x first strand buffer, 0.03 units/ μ l RNase inhibitor, 500 μ M dATP, 500 μ M dGTP, 500 μ M dTTP, 40 μ M dCTP, and 40 μ M either dCTP-Cy3 or dCTP-Cy5 (Amersham Pharmacia Biotech). The reverse transcription reaction was performed in a 25 μ l volume containing 200 ng poly(A) RNA using the GEMBRIGHT kit (Incyte Pharmaceuticals). Specific control poly(A) RNAs (YCFR06, YCFR45, YCFR67, YCFR85, YCFR43, YCFR22, YCFR23, YCFR25, YCFR44, YCFR26) were synthesized by *in vitro* transcription from non-coding yeast genomic DNA (W. Lei, unpublished). As quantitative controls, control mRNAs (YCFR06, YCFR45, YCFR67, and YCFR85) at 0.002ng, 0.02ng, 0.2 ng, and 2ng were diluted into reverse transcription reaction at ratios of 1:100,000, 1:10,000, 1:1000, 1:100 (w/w) to sample mRNA, respectively. To sample differential expression patterns, control mRNAs (YCFR43, YCFR22, YCFR23, YCFR25, YCFR44, YCFR26) were diluted into reverse transcription reaction at ratios of 1:3, 3:1, 1:10, 10:1, 1:25, 25:1 (w/w) to sample mRNA. Reactions were incubated at 37°C for 2 hr, treated with 2.5 μ l of 0.5M sodium hydroxide, and incubated for 20 minutes at 85°C to stop the reaction and degrade the RNA.

Probes were purified using two successive CHROMA SPIN 30 gel filtration spin columns (Clontech). Cy3- and Cy5-labeled reaction samples were combined as described below and ethanol precipitated using 1 ml of glycogen (1 mg/ml), 60 μ l sodium acetate, and 300 μ l of 100% ethanol. The probe was then dried to completion using a SpeedVAC system (Savant Instruments, Holbrook NY) and resuspended in 14 μ l 5X SSC/0.2% SDS.

VII. Hybridization and Detection

Hybridization reactions contained 9 μ l of probe mixture consisting of 0.2 μ g each of Cy3 and Cy5 labeled cDNA synthesis products from pairs of matched time point experimental and control cells in 5X SSC, 0.2% SDS hybridization buffer. The target mixture was heated to 65°C for 5 minutes and was aliquoted onto the microarray surface and covered with an 1.8 cm² coverslip. The microarrays were transferred to a waterproof chamber having a cavity just slightly larger than a microscope slide. The chamber was kept at 100% humidity internally by the addition of 140 μ l of 5x SSC in a corner of the chamber. The chamber containing the microarrays was incubated for about 6.5 hours at 60°C. The microarrays were washed for 10 min at 45°C in low stringency wash buffer (1x SSC, 0.1% SDS), three times for 10 minutes each at 45°C in high stringency wash buffer (0.1x SSC), and dried.

Reporter-labeled hybridization complexes were detected with a microscope equipped with an Innova 70 mixed gas 10 W laser (Coherent, Santa Clara CA) capable of generating spectral lines at 488 nm for excitation of Cy3 and at 632 nm for excitation of Cy5. The excitation laser light was focused on the microarray using a 20X microscope objective (Nikon, Melville NY). The slide containing the microarray was placed on a computer-controlled X-Y stage on the microscope and raster-scanned past the objective. The 1.8 cm x 1.8 cm microarray used in the present example was scanned with a resolution of 20 micrometers.

In two separate scans, the mixed gas multiline laser excited the two fluorophores sequentially. Emitted light was split, based on wavelength, into two photomultiplier tube detectors (PMT R1477; Hamamatsu Photonics Systems, Bridgewater NJ) corresponding to the two fluorophores. Appropriate filters positioned between the microarray and the photomultiplier tubes were used to filter the signals. The emission maxima of the fluorophores used were 565 nm for Cy3 and 650 nm for Cy5. Each microarray was typically scanned twice, one scan per fluorophore using the appropriate filters at the laser source, although the apparatus was capable of recording the spectra from both fluorophores simultaneously.

The sensitivity of the scans was calibrated using the signal intensity generated by a cDNA control species. Samples of the calibrating cDNA were separately labeled with the two fluorophores and identical amounts of each were added to the hybridization mixture. A specific location on the microarray contained a complementary DNA sequence, allowing the intensity of the signal at that location to be correlated with a weight ratio of hybridizing species of 1:100,000.

The output of the photomultiplier tube was digitized using a 12-bit RTI-835H analog-to-digital (A/D) conversion board (Analog Devices, Norwood, MA) installed in an IBM-compatible PC computer. The digitized data were displayed as an image where the signal intensity was mapped using a linear 20-color transformation to a pseudocolor scale ranging from blue (low signal) to red (high signal). The data was also analyzed quantitatively. Where two different fluorophores were excited and measured simultaneously, the data were first corrected for optical crosstalk (due to overlapping

emission spectra) between the fluorophores using each fluorophore's emission spectrum.

A grid was superimposed over the fluorescence signal image such that the signal from each spot was centered in each element of the grid. The fluorescence signal within each element was then integrated to obtain a numerical value corresponding to the average intensity of the signal. The software used for signal analysis was the GEMTOOLS gene expression analysis program (Incyte Pharmaceuticals).

VIII. Data Analysis and Results

An agglomerative cluster analysis was used to identify the typical response patterns and establish the relationships between the different gene expression profiles. Each gene measurement was first normalized by dividing the expression ratios by the maximum value for each time series. To emphasize the variation from one time point to the next, slopes were added to the expression vectors by taking the expression differences between consecutive time points. The Euclidean distance was used as a similarity measure for the expression responses.

The agglomerative algorithm employed constructs a dendrogram. Starting with N clusters each containing a single gene, at each step in the iteration the two closest clusters were merged into a larger cluster. The distance between clusters was defined as the distance between their average expression patterns. After N-1 steps all the data points were merged together. The clustering process defines a hierarchical tree. Genes were automatically assigned to a cluster by cutting the tree between the root and each gene branch with a set of 10 lines ("branch levels") separated by fixed distances. The branch level cut-off forms a cluster. The tree was first 'normalized' so that each branch was at the same distance from the root. In order to preserve the distance between the closest genes, the tree was distorted at the branch furthest from the leaf. The number of branches intersecting at each branch level of the tree equals the number of clusters at that level.

Division of the tree at branch level 5 divides the genes into 7 clusters of gene expression which include 276 differentially expressed genes and splice variants. In tables 1, columns 4 through 10 show the level of gene expression at each time point in response to Ox-LDL exposure vs. no Ox-LDL. Differential regulation has been normalized to a maximum value of 1.0 for each gene. White represents relative expression in response to Ox-LDL ranging from 0 – 25% of maximum for that particular gene; light gray from 26 – 50%; dark gray from 51 – 75%; black from 76 – 100%.

IX. Complementary Nucleic Acid Molecules

Molecules complementary to the polynucleotide, or a fragment thereof, are used to detect, decrease, or inhibit gene expression. Although use of oligonucleotides comprising from about 15 to about 30 base pairs is described, the same procedure is used with larger or smaller fragments or their derivatives (PNAs). Oligonucleotides are selected using OLIGO 4.06 software (National Biosciences) and SEQ ID NOs:1-278. To inhibit transcription by preventing promoter binding, a complementary

oligonucleotide is designed to bind to the most unique 5' sequence, most preferably about 10 nucleotides before the initiation codon of the open reading frame. To inhibit translation, a complementary oligonucleotide is designed to prevent ribosomal binding to the mRNA encoding the protein.

5 In addition to using antisense molecules constructed to interrupt transcription or translation, modifications of gene expression can be obtained by designing antisense molecules to genomic sequences (such as enhancers or introns) or even to trans-acting regulatory genes. Similarly, antisense inhibition can be achieved using Hogeboom base-pairing methodology, also known as "triple helix" base pairing. Antisense molecules involved in triple helix pairing compromise the ability of the double
10 helix to open sufficiently for the binding of polymerases, transcription factors, or regulatory molecules.

Such antisense molecules are placed in expression vectors and used to transform preferred cells or tissues. This may include introduction of the expression vector into a cell line to test efficacy; into an organ, tumor, synovial cavity, or the vascular system for transient or short term therapy; or into a stem cell or other reproducing lineage for long term or stable gene therapy. Transient expression may
15 last for a month or more with a non-replicating vector and for three months or more if appropriate elements for inducing vector replication are used in the transformation/expression system.

Stable transformation of appropriate dividing cells with a vector encoding the antisense molecule can produce a transgenic cell line, tissue, or organism (USPN 4,736,866). Those cells that assimilate and replicate sufficient quantities of the vector to allow stable integration also produce
20 enough antisense molecules to compromise or entirely eliminate activity of the polynucleotide.

X. Hybridization Technologies and Analyses

Hybridization technology utilizes a variety of substrates such as polymer coated glass slides and nylon membranes. Arranging elements on polymer coated slides is described in Example V; probe preparation and hybridization and analysis using polymer coated slides is described in examples VI and
25 VII, respectively.

Polynucleotides are applied to a membrane substrate by one of the following methods. A mixture of polynucleotides is fractionated by gel electrophoresis and transferred to a nylon membrane by capillary transfer. Alternatively, the polynucleotides are individually ligated to a vector and inserted into bacterial host cells to form a library. The polynucleotides are then arranged on a substrate by one
30 of the following methods. In the first method, bacterial cells containing individual clones are robotically picked and arranged on a nylon membrane. The membrane is placed on LB agar containing selective agent (carbenicillin, kanamycin, ampicillin, or chloramphenicol depending on the vector used) and incubated at 37°C for 16 hr. The membrane is removed from the agar and consecutively placed colony side up in 10% SDS, denaturing solution (1.5 M NaCl, 0.5 M NaOH), neutralizing solution
35 (1.5 M NaCl, 1 M Tris, pH 8.0), and twice in 2xSSC for 10 min each. The membrane is then UV

irradiated in a STRATALINKER UV-crosslinker (Stratagene).

In the second method, polynucleotides are amplified from bacterial vectors by thirty cycles of PCR using primers complementary to vector sequences flanking the insert. PCR amplification increases a starting concentration of 1-2 ng nucleic acid to a final quantity greater than 5 µg.

- 5 Amplified nucleic acids from about 400 bp to about 5000 bp in length are purified using SEPHACRYL-400 beads (Amersham Pharmacia Biotech). Purified nucleic acids are arranged on a nylon membrane manually or using a dot/slot blotting manifold and suction device and are immobilized by denaturation, neutralization, and UV irradiation as described above.

- Hybridization probes derived from polynucleotides of the Sequence Listing are employed for
10 screening cDNAs, mRNAs, or genomic DNA in membrane-based hybridizations. Probes are prepared by diluting the polynucleotides to a concentration of 40-50 ng in 45 µl TE buffer, denaturing by heating to 100°C for five min, and briefly centrifuging. The denatured polynucleotide is then added to a REDIPRIME tube (Amersham Pharmacia Biotech), gently mixed until blue color is evenly distributed, and briefly centrifuged. Five microliters of [³²P]dCTP is added to the tube, and the contents are
15 incubated at 37°C for 10 min. The labeling reaction is stopped by adding 5 µl of 0.2M EDTA, and probe is purified from unincorporated nucleotides using a PROBEQUANT G-50 microcolumn (Amersham Pharmacia Biotech). The purified probe is heated to 100°C for five min, snap cooled for two min on ice.

- Membranes are pre-hybridized in hybridization solution containing 1% Sarkosyl and 1x high
20 phosphate buffer (0.5 M NaCl, 0.1 M Na₂HPO₄, 5 mM EDTA, pH 7) at 55°C for two hr. The probe, diluted in 15 ml fresh hybridization solution, is then added to the membrane. The membrane is hybridized with the probe at 55°C for 16 hr. Following hybridization, the membrane is washed for 15 min at 25°C in 1mM Tris (pH 8.0), 1% Sarkosyl, and four times for 15 min each at 25°C in 1mM Tris (pH 8.0). To detect hybridization complexes, XOMAT-AR film (Eastman Kodak, Rochester NY) is
25 exposed to the membrane overnight at -70°C, developed, and examined visually.

XI. Expression of the Encoded Protein

- Expression and purification of a protein encoded by a polynucleotide of the invention is achieved using bacterial or virus-based expression systems. For expression in bacteria, cDNA is subcloned into a vector containing an antibiotic resistance gene and an inducible promoter that directs
30 high levels of cDNA transcription. Examples of such promoters include, but are not limited to, the *trp-lac* (*tac*) hybrid promoter and the T5 or T7 bacteriophage promoter in conjunction with the *lac* operator regulatory element. Recombinant vectors are transformed into bacterial hosts, such as BL21(DE3). Antibiotic resistant bacteria express the protein upon induction with isopropyl beta-D-thiogalactopyranoside (IPTG). Expression in eukaryotic cells is achieved by infecting *Spodoptera*
35 *frugiperda* (Sf9) insect cells with recombinant baculovirus, *Autographica californica* nuclear

polyhedrosis virus. The polyhedrin gene of baculovirus is replaced with the polynucleotide by either homologous recombination or bacterial-mediated transposition involving transfer plasmid intermediates. Viral infectivity is maintained and the strong polyhedrin promoter drives high levels of polynucleotide transcription.

- 5 For ease of purification, the protein is synthesized as a fusion protein with glutathione-S-transferase (GST; Amersham Pharmacia Biotech) or a similar alternative such as FLAG. The fusion protein is purified on immobilized glutathione under conditions that maintain protein activity and antigenicity. After purification, the GST moiety is proteolytically cleaved from the protein with thrombin. A fusion protein with FLAG, an 8-amino acid peptide, is purified using commercially
10 available monoclonal and polyclonal anti-FLAG antibodies (Eastman Kodak, Rochester NY).

XII. Production of Specific Antibodies

- A denatured polypeptide from a reverse phase HPLC separation is obtained in quantities up to 75 mg. This denatured protein is used to immunize mice or rabbits following standard protocols. About 100 µg is used to immunize a mouse, while up to 1 mg is used to immunize a rabbit. The
15 denatured polypeptide is radioiodinated and incubated with murine B-cell hybridomas to screen for monoclonal antibodies. About 20 mg of polypeptide is sufficient for labeling and screening several thousand clones.

- In another approach, the amino acid sequence translated from a polynucleotide of the invention is analyzed using PROTEAN software (DNASTAR) to determine regions of high immunogenicity.
20 The optimal sequences for immunization are usually at the C-terminus, the N-terminus, and those intervening, hydrophilic regions of the polypeptide that are likely to be exposed to the external environment when the polypeptide is in its natural conformation. Typically, oligopeptides about 15 residues in length are synthesized using an ABI 431 Peptide synthesizer (PE Biosystems) using Fmoc-chemistry and then coupled to keyhole limpet hemocyanin (KLH; Sigma Aldrich) by reaction
25 with M-maleimidobenzoyl-N-hydroxysuccinimide ester. If necessary, a cysteine may be introduced at the N-terminus of the peptide to permit coupling to KLH. Rabbits are immunized with the oligopeptide-KLH complex in complete Freund's adjuvant. The resulting antisera are tested for anti-peptide activity by binding the peptide to plastic, blocking with 1% BSA, reacting with rabbit antisera, washing, and reacting with radioiodinated goat anti-rabbit IgG.

- 30 Hybridomas are prepared and screened using standard techniques. Hybridomas of interest are detected by screening with radioiodinated polypeptide to identify those fusions producing a monoclonal antibody specific for the polypeptide. In a typical protocol, wells of 96 well plates (FAST, Becton-Dickinson, Palo Alto CA) are coated with affinity-purified, specific rabbit-anti-mouse (or suitable anti-species Ig) antibodies at 10 mg/ml. The coated wells are blocked with 1% BSA and
35 washed and exposed to supernatants from hybridomas. After incubation, the wells are exposed to

radiolabeled polypeptide at 1 mg/ml. Clones producing antibodies bind a quantity of labeled polypeptide that is detectable above background.

Such clones are expanded and subjected to 2 cycles of cloning at 1 cell/3 wells. Cloned hybridomas are injected into pristane-treated mice to produce ascites, and monoclonal antibody is
5 purified from the ascitic fluid by affinity chromatography on protein A (Amersham Pharmacia Biotech). Monoclonal antibodies with affinities of at least 10^8 M^{-1} , preferably 10^9 to 10^{10} M^{-1} or stronger, are made by procedures well known in the art.

XIII. Purification of Naturally Occurring Protein Using Specific Antibodies

10 Naturally occurring or recombinant protein is substantially purified by immunoaffinity chromatography using antibodies specific for the protein. An immunoaffinity column is constructed by covalently coupling the antibody to CNBr-activated SEPHAROSE resin (Amersham Pharmacia Biotech). Media containing the protein is passed over the immunoaffinity column, and the column is washed using high ionic strength buffers in the presence of detergent to allow preferential absorbance of
15 the protein. After coupling, the protein is eluted from the column using a buffer of pH 2-3 or a high concentration of urea or thiocyanate ion to disrupt antibody/protein binding, and the protein is collected.

XIV. Screening Molecules for Specific Binding

The polynucleotide or fragments thereof are labeled with ^{32}P -dCTP, Cy3-dCTP, Cy5-dCTP
20 (Amersham Pharmacia Biotech), or the protein or portions thereof are labeled with BIODIPY or FITC (Molecular Probes). A library or a plurality of candidate molecules or compounds previously arranged on a substrate are incubated in the presence of labeled polynucleotide or protein. After incubation under conditions for a polynucleotide or protein, the substrate is washed. Any position on the substrate retaining label, that indicates specific binding or complex formation, identifies a ligand. Data obtained
25 using different concentrations of the polynucleotide or polypeptide are used to calculate affinity between the labeled polynucleotide or protein and the bound ligand.

All publications and patents mentioned in the above specification are herein incorporated by reference. Various modifications and variations of the described method and system of the invention
30 will be apparent to those skilled in the art without departing from the scope and spirit of the invention. Although the invention has been described in connection with specific preferred embodiments, it should be understood that the invention as claimed should not be unduly limited to such specific embodiments. Indeed, various modifications of the above-described modes for carrying out the invention which are obvious to those skilled in the field of molecular biology or related fields are intended to be within the
35 scope of the following claims.

TABLE 1

SEQ ID NO	Incyte ID	Gene Annotation	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	Cluster
1	440295.1	Human SBC2 mRNA for sodium bicarbonate transporter 2, complete cds.	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1
2	g34387	annexin I (lipocortin I)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2
3	247178.2	sperm surface protein	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2
4	567938	integrin, alpha X (antigen CD11C (p150), alpha polypeptide)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2
5	351122.2	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2
6	481379.9	paired basic amino acid cleaving enzyme (furin, membrane associated receptor protein)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2
7	215391.7	phosphogluconate dehydrogenase	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2
8	243812.1	protein kinase mitogen- activated 13	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2
9	1085755.1	folate receptor 1 (adult)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2
10	347809.3	solute carrier family 6 (neurotransmitter transporter, taurine), member 6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2
11	331734.4	prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2
12	116840.38	interferon regulatory factor 3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2
13	903565.11	proprotein convertase subtilisin/kexin type 4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2
14	903565.8	Human mRNA for PACE4E-1, complete cds.	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2
15	474310.13	transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2
16	413006.13	differentiated Embryo Chondrocyte expressed gene 1	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2
17	76460.2	pyridoxal (pyridoxine, vitamin B6) kinase	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2
18	474374.4	pim-1 oncogene	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2
19	427792.8	cathepsin B	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2
20	364482.3	carnitine palmitoyltransferase I, liver	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2
21	978487.1	carnitine palmitoyltransferase I, liver	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2
22	410626.2	Human retinoid X receptor-gamma mRNA, complete cds	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2
23	234480.6	glutaredoxin (thioltransferase)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2
24	253542.2	dual specificity phosphatase 5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2
25	234202.24	microsomal glutathione S-transferase 1	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2
26	253946.4	interleukin 6 signal transducer (gp130, oncostatin M receptor)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2
27	348801.1	pro-platelet basic protein	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2
28	980611.1	matrilin 1, cartilage matrix protein	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2
29	283885.8	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2
30	348196.33	antigen identified by monoclonal antibodies 4F2, TRA1.10, TROP4, and T43	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2
31	256009.4	AHNK nucleoprotein (desmoyokin)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2
32	481594.12	Human RACH1 (RACH1) mRNA, complete cds	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2
33	978788.1	Human RACH1 (RACH1) mRNA, complete cds	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2

SEQ ID

SEQ ID NO	Incyte ID	Gene Annotation
34	335171.1	integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)
35	998433.2	ESTs, Highly similar to DIAMINE ACETYLTRANSFERASE [H.sapiens]
36	221928.9	ESTs
37	331291.3	Homo sapiens mRNA for KIAA0291 gene, partial cds
38	233331.3	Homo sapiens KIAA0439 mRNA, partial cds
39	474682.2	ESTs, Weakly similar to W01A11.2 gene product [C.elegans]
40	3161.7	ESTs, Weakly similar to (define not available 4529890) [H.sapiens]
41	984248.1	ESTs
42	196590.2	ESTs
43	255109.1	ESTs
44	238622.1	Human clone 46690 brain expressed mRNA from chromosome X
45	334385.3	Homo sapiens mRNA for KIAA0284 gene, partial cds
46	998997.1	ESTs
47	200578.1	ESTs
48	208134.1	ESTs
49	153659.2	interleukin 1 receptor antagonist
50	241930.15	liver X receptor, alpha
51	413466.5	adipose differentiation-related protein; adipophilin
52	3249239	colony stimulating factor 1 (macrophage)
53	337518.18	CD36 antigen (collagen type I receptor, thrombospondin receptor)
54	g3116213	SH3 binding protein
55	g5912216	SH3 binding protein
56	992917.1	ferritin, heavy polypeptide 1
57	411424.12	LIM and senescent cell antigen-like domains 1
58	995600.17	Homo sapiens clone 24649 mRNA sequence
59	441292.7	epithelial membrane protein 1
60	42176.5	Down syndrome candidate region 1
61	234537.3	5' nucleotidase (CD73)
62	470468.21	uridine phosphorylase
63	240120.3	diphtheria toxin receptor (heparin-binding epidermal growth factor-like growth factor)
64	28779.3	small inducible cytokine subfamily A (Cys-Cys), member 20
65	238627.2	BCL2-related protein A1
66	254107.1	thrombomodulin

TABLE 1

SEQ ID NO	Incye ID	Gene Annotation	0h	0.5h	2.5h	8h	1d	2d	4d	Cluster
67	330908.2	leukemia inhibitory factor (cholinergic differentiation factor)	0.3	0.3	0.3	0.2	0.4	1.0	0.3	4
68	g687589	Human (AF1q) mRNA, complete cds	0.5	0.5	0.5	0.3	0.4	0.3	1.0	1
69	197975.11	KIAA0763 gene product	0.4	0.4	0.4	0.4	0.4	0.6	1.0	1
70	227928.2	KIAA0429 gene product	0.3	0.4	0.3	0.3	0.3	0.5	1.0	1
71	258785.7	ESTs	0.3	0.4	0.3	0.2	0.3	0.2	1.0	1
72	977757.3	KIAA0237 gene product	0.3	0.4	0.3	0.3	0.3	0.4	1.0	1
73	232773.2	ESTs	0.3	0.3	0.3	0.3	0.3	0.4	1.0	1
74	g6634024	Human mRNA for KIAA0379 gene, partial cds	0.4	0.5	0.3	0.5	0.5	0.6	1.0	1
75	g4589571	ESTs, Weakly similar to DAP-1 beta [H.sapiens]	0.4	0.5	0.5	0.4	0.4	0.5	1.0	1
76	334370.3	KIAA0024 gene product	0.5	0.6	0.6	0.5	0.5	0.5	1.0	1
77	980461.1	ESTs	0.5	0.4	0.3	0.4	0.4	0.5	1.0	1
78	422969.4	KIAA0598 gene product	0.4	0.5	0.5	0.4	0.4	0.5	1.0	1
79	244150.4	Human mRNA for KIAA0194 gene, partial cds	0.4	0.5	0.4	0.4	0.4	0.5	1.0	2
80	410257.11	ESTs	0.5	0.5	0.6	0.5	0.7	0.7	1.0	2
81	28253.3	Homo sapiens chromosome 19, cosmid R28379	0.3	0.4	0.3	0.4	0.2	0.4	1.0	1
82	g31670	guanylate cyclase 1, soluble, alpha 2	0.5	0.5	0.6	0.4	0.4	0.6	1.0	1
83	977552.1	musculin (activated B-cell factor-1)	0.4	0.5	0.5	0.5	0.4	0.5	1.0	1
84	977552.2	Human activated B-cell factor-1 (ABF-1) mRNA, complete cds.	0.4	0.6	0.5	0.6	0.4	0.4	1.0	1
85	347829.6	yes-associated protein 65 kDa	0.3	0.3	0.3	0.3	0.4	0.4	1.0	1
86	251776.11	integrin, beta 5	0.5	0.5	0.5	0.5	0.4	0.5	1.0	1
87	343674.9	GTP-binding protein overexpressed in skeletal muscle	0.3	0.4	0.4	0.5	0.3	0.5	1.0	1
88	479136.1	core-binding factor, runt domain, alpha subunit 3	0.5	0.5	0.4	0.4	0.4	0.5	1.0	1
89	1078147.1	early development regulator 2 (homolog of polyhomeotic 2)	0.5	0.5	0.5	0.5	0.6	0.7	1.0	1
90	474275.1	podocalyxin-like	0.4	0.5	0.5	0.5	0.4	0.5	1.0	1
91	1320658	fibulin 1	0.4	0.4	0.5	0.5	0.4	0.5	1.0	1
92	242114.16	PTK2 protein tyrosine kinase 2	0.5	0.5	0.5	0.4	0.4	0.4	1.0	1
93	445186.7	LIM domain only 4	0.4	0.5	0.4	0.5	0.4	0.5	1.0	1
94	474496.2	toll-like receptor 2	0.4	0.5	0.4	0.4	0.4	0.5	1.0	1
95	257114.7	solute carrier family 31 (copper transporters), member 2	0.4	0.4	0.5	0.4	0.5	0.5	1.0	1
96	984005.1	high-mobility group (nonhistone chromosomal) protein isoform I-C	0.4	0.4	0.4	0.4	0.3	0.7	1.0	1
97	977667.1	complement component 5 receptor 1 (C5a ligand)	0.5	0.4	0.4	0.4	0.5	0.7	1.0	1
98	996862.4	TG-interacting factor (TALE family homeobox)	0.4	0.5	0.5	0.5	0.5	0.8	1.0	1
99	364940.19	sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican)	0.4	0.3	0.3	0.3	0.1	0.3	1.0	1

TABLE 1

SEQ ID NO	Incite ID	Gene Annotation	0h	0.5h	2.5h	8h	1d	2d	4d	Cluster
100	1041140.4	Fc fragment of IgG, low affinity IIIa, receptor for (CD16)	0.3	0.4	0.3	0.3	0.4	0.3	1.0	1
101	408246.2	leupaxin	0.4	0.4	0.4	0.4	0.3	0.6	1.0	1
102	902740.4	aminolevulinatase, delta-, dehydratase	0.6	0.5	0.5	0.4	0.6	0.4	1.0	1
103	475486.9	peptidylprolyl isomerase F (cyclophilin F)	0.5	0.5	0.5	0.4	0.6	0.4	1.0	1
104	233778.9	acid sphingomyelinase-like phosphodiesterase	0.5	0.5	0.6	0.6	0.4	0.9	1.0	1
105	350392.3	myosin IC	0.4	0.4	0.4	0.4	0.6	0.6	1.0	1
106	458045.4	integrin, alpha 5 (fibronectin receptor, alpha polypeptide)	0.4	0.4	0.5	0.5	0.4	0.5	1.0	1
107	471362.17	Homo sapiens myosin light chain kinase (MLCK) mRNA, complete cds	0.4	0.4	0.5	0.6	0.5	0.5	1.0	1
108	336716.3	cytochrome P450, subfamily XXVIII (25-hydroxyvitamin D-1-alpha-hydroxylase), polypeptide 1	0.4	0.5	0.5	0.4	0.4	0.5	1.0	1
109	995211.5	syndecan 2 (heparan sulfate proteoglycan 1, cell surface-associated, fibroglycan)	0.4	0.4	0.4	0.5	0.4	0.6	1.0	1
110	238824.2	3-prime-phosphoadenosine 5-prime-phosphosulfate synthase 1	0.4	0.5	0.5	0.4	0.2	0.7	1.0	1
111	474592.3	Human leukemia virus receptor 1 (GLVR1) mRNA, complete cds	0.4	0.4	0.3	0.3	0.4	0.5	1.0	1
112	431338.2	regulator of G-protein signalling 16	0.3	0.3	0.3	0.3	0.2	0.4	1.0	1
113	412631.5	plectin 1, intermediate filament binding protein, 500kD	0.4	0.4	0.4	0.4	0.5	0.6	1.0	1
114	350480.6	Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog	0.3	0.4	0.4	0.4	0.4	0.6	1.0	1
115	350521.15	tumor necrosis factor receptor superfamily, member 10b	0.5	0.5	0.5	0.4	0.3	0.4	1.0	1
116	445076.9	plasminogen activator, urokinase receptor	0.3	0.3	0.3	0.3	0.4	0.5	1.0	1
117	995028.4	fibroblast activation protein, alpha	0.5	0.4	0.5	0.4	0.3	0.5	1.0	1
118	245008.4	phosphodiesterase 8A	0.4	0.5	0.5	0.5	0.5	0.5	1.0	1
119	350895.1	twist (Drosophila) homolog	0.4	0.4	0.4	0.4	0.2	0.5	1.0	1
120	434265.5	ribosomal protein S6 kinase, 90kD, polypeptide 2	0.4	0.5	0.4	0.4	0.2	0.5	1.0	1
121	427813.14	fibronectin 1	0.3	0.3	0.4	0.2	0.2	0.2	1.0	1
122	14704.3	activin A receptor, type II	0.5	0.5	0.5	0.5	0.3	0.4	1.0	1
123	344240.2	macrophage scavenger receptor 1	0.3	0.4	0.4	0.4	0.4	0.4	1.0	1
124	239694.6	a disintegrin and metalloproteinase domain 17 (tumor necrosis factor, alpha, converting enzyme)	0.5	0.5	0.5	0.4	0.3	0.6	1.0	1
125	255772.2	activin A receptor, type I	0.5	0.5	0.5	0.6	0.9	1.0	0.9	2
126	232066.3	integrin, beta 7	0.5	0.5	0.5	0.3	0.6	0.9	1.0	2
127	246504.1	activating transcription factor 1	0.5	0.5	0.5	0.4	0.6	1.0	0.9	2
128	986123.22	vimentin	0.4	0.4	0.4	0.4	0.6	0.6	1.0	2
129	898945.14	kynurenine 3-monooxygenase (kynurenine 3-hydroxylase)	0.4	0.4	0.4	0.4	0.6	1.0	0.9	2
130	236208.16	peptidylglycine alpha-amidating monooxygenase	0.4	0.4	0.4	0.4	0.6	1.0	0.9	2
131	246531.2	hippocalcin-like 1	0.4	0.4	0.4	0.4	0.6	0.9	1.0	2
132	238586.2	matrix metalloproteinase 7 (matrilysin, uterine)	0.4	0.5	0.4	0.3	0.6	0.6	1.0	2

TABLE I

SEQ ID NO	Incyte ID	Gene Annotation	0h	0.5h	2.5h	4h	8h	1d	2d	4d	Cluster
133	245532.7	cyclin-dependent kinase inhibitor 1A (p21, Cip1)	0.4	0.4	0.4	0.5	0.7	1.0	0.9	2	
134	200972.2	Human putative cyclin G1 interacting protein mRNA, partial sequence	0.4	0.4	0.4	0.3	0.6	1.0	1.0	2	
135	348061.1	glucan (1,4-alpha-), branching enzyme 1	0.4	0.4	0.4	0.5	0.7	0.8	1.0	2	
136	233711.7	pyruvate dehydrogenase kinase, isoenzyme 4	0.5	0.5	0.5	0.4	0.7	1.0	1.0	2	
137	256043.19	cathepsin L	0.4	0.5	0.4	0.5	0.8	0.8	1.0	2	
138	445012.6	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1	0.5	0.5	0.5	0.5	0.7	1.0	1.0	2	
139	g463906	syntaxin 4A (placental)	0.5	0.5	0.5	0.5	0.8	0.9	1.0	2	
140	475621.1	CD36 antigen (collagen type I receptor, thrombospondin receptor)-like 2	0.4	0.5	0.4	0.5	0.6	0.4	1.0	2	
141	216063.17	Human lysophospholipase homolog (HU-K5) mRNA, complete cds	0.4	0.4	0.5	0.4	0.6	0.8	1.0	2	
142	1099498.9	apolipoprotein C-I	0.5	0.5	0.5	0.7	0.7	0.8	1.0	2	
143	1099076.1	fatty acid binding protein 5 (psoriasis-associated)	0.4	0.4	0.4	0.5	0.6	0.6	1.0	2	
144	902119.3	CD63 antigen (melanoma 1 antigen)	0.5	0.5	0.5	0.3	0.8	1.0	1.0	2	
145	g2982500	neuropathy target esterase	0.5	0.5	0.5	0.5	0.7	0.9	1.0	2	
146	1097580.4	ras homolog gene family, member C	0.5	0.5	0.5	0.5	0.8	1.0	0.9	2	
147	391851.1	ferritin, light polypeptide	0.5	0.5	0.5	0.5	0.9	1.0	1.0	2	
148	13105.9	lectin, galactoside-binding, soluble, 3 (galectin 3)	0.4	0.5	0.4	0.5	0.9	0.9	1.0	2	
149	356248.4	inositol phosphate 5'-phosphatase 2 (synaptotagmin 2)	0.4	0.4	0.5	0.3	0.8	1.0	1.0	2	
150	331045.1	phosphodiesterase 3B, cGMP-inhibited	0.5	0.5	0.5	0.5	0.8	0.9	1.0	2	
151	482480.3	guanine nucleotide-releasing factor 2 (specific for crk proto-oncogene)	0.4	0.4	0.5	0.6	0.7	0.5	1.0	2	
152	245099.8	target of myb1 (chicken) homolog	0.5	0.5	0.5	0.5	0.7	0.9	1.0	2	
153	245481.2	ciliary neurotrophic factor receptor	0.5	0.5	0.5	0.5	0.8	1.0	1.0	2	
154	225021.4	Burkitt lymphoma receptor 1, GTP-binding protein	0.5	0.5	0.5	0.5	0.3	1.0	0.9	4	
155	451767.28	tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory)	0.5	0.5	0.5	0.4	0.5	1.0	0.7	4	
156	902142.11	Homo sapiens leucocyte immunoglobulin-like receptor-5 (LIR-5) mRNA, complete cds	0.5	0.5	0.5	0.5	0.7	1.0	0.3	4	
157	291095.5	cytochrome P450, subfamily 1 (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile)	0.4	0.3	0.4	0.3	0.3	1.0	0.6	4	
158	332919.4	H.sapiens mRNA for cytokine inducible nuclear protein	0.3	0.4	0.3	0.3	0.4	1.0	0.7	4	
159	387130.26	choline kinase-like	0.4	0.4	0.4	0.3	0.5	1.0	0.5	4	
160	410580.13	plasminogen activator inhibitor, type I	0.4	0.4	0.4	0.3	0.6	1.0	0.5	4	
161	251715.1	early growth response 1	0.4	0.4	0.4	0.3	0.5	1.0	0.5	4	
162	1799017F6	neuregulin 1	0.5	0.5	0.5	0.3	0.5	1.0	0.5	4	
163	348891.1	BCL2/adenovirus E1B 19kD-interacting protein 3-like	0.5	0.5	0.5	0.3	0.5	1.0	0.6	4	
164	903956.15	numb (Drosophila) homolog	0.5	0.4	0.4	0.4	0.6	1.0	0.5	4	
165	235184.1	guanine nucleotide binding protein 11	0.5	0.4	0.5	0.4	0.5	1.0	0.9	4	

TABLE 1

SEQ ID NO	Incye ID	Gene Annotation	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	Cluster
166	330948.3	solute carrier family 9 (sodium/hydrogen exchanger), isoform 1	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	4
167	994057.1	thrombospondin 1	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	4
168	197301.4	phosphoprotein regulated by mitogenic pathways	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	4
169	476016.17	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	4
170	1098409.1	early growth response 2 (Krox-20 (Drosophila) homolog)	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	4
197	997377.1	ribonuclease, RNase A family, 3 (eosinophil cationic protein)	0.4	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	4
198	42869.3	cathepsin G	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	3
199	248306.1	carbonic anhydrase II	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	3
200	247220.15	thymidylate synthetase	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5
201	26662.3	centromere protein F (350/400kD, mitotin)	0.8	1.0	0.9	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	5
202	977509.3	v-myb avian myeloblastosis viral oncogene homolog-like 2	0.8	1.0	0.9	0.9	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	5
203	221961.2	myeloid cell nuclear differentiation antigen	0.8	0.9	1.0	0.9	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	5
204	246824.1	ribonuclease, RNase A family, 2 (liver, eosinophil-derived neurotoxin)	0.9	1.0	0.9	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5
205	407557.2	cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)	0.8	1.0	0.9	0.9	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	5
206	372981.2	Homo sapiens ZW10 interactor Zwint mRNA, complete cds	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5
207	201409.6	Fc fragment of IgG, high affinity Ia, receptor for (CD64)	0.8	1.0	0.9	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	5
208	331025.1	Homo sapiens mitotic centromere-associated kinesin mRNA, complete cds	0.9	0.9	1.0	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	5
209	247515.1	elastase 2, neutrophil	0.9	0.9	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5
210	199471.2	MAD2 (mitotic arrest deficient, yeast, homolog)-like 1	1.0	1.0	1.0	1.0	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	5
211	291675.3	high-mobility group (nonhistone chromosomal) protein 2	0.8	0.8	0.8	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	5
212	343899.2	hyaluronan-mediated motility receptor (RHAMM)	0.9	0.9	1.0	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	5
213	335775.2	lamin B1	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5
214	232714.5	ESTs	0.9	1.0	1.0	1.0	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	5
215	305039.4	ESTs	0.9	1.0	0.9	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	5
216	233603.2	ESTs	0.9	0.8	0.8	1.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	5
217	330930.1	ESTs	0.9	1.0	0.9	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	5
218	247289.1	Human clone 23815 mRNA sequence	0.9	1.0	0.9	0.9	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	5
219	331033.1	KIAA0008 gene product	0.9	1.0	0.9	0.9	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	5
220	1098766.1	ESTs	0.9	0.9	1.0	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	5
221	245632.3	ESTs	0.9	0.8	0.9	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	5
222	333461.2	Human mRNA for KIAA0074 gene, partial cds	0.9	1.0	1.0	1.0	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	5
223	347876.6	minichromosome maintenance deficient (S. cerevisiae) 4	1.0	0.9	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	5
224	413842.1	Human ECRP gene for eosinophil cationic related protein	0.8	0.8	0.9	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	5

TABLE 1

SEQ ID NO	Incyte ID	Gene Annotation	40	45	50	55	60	65	70	75	80	85	90	95	100	Cluster
225	235867.2	polo (Drosophila)-like kinase	0.9	1.0	0.9	0.8	0.8	0.5	0.4							5
226	428665	ribonucleotide reductase M1 polypeptide	0.8	1.0	1.0	0.9	0.5	0.3	0.4							5
227	2234.3	Homo sapiens histone H2A.F/Z variant (H2AV) mRNA, complete cds	0.8	1.0	1.0	0.9	0.7	0.5	0.3							5
228	1000139.13	insulin-like growth factor binding protein 7	0.9	0.9	0.9	0.9	0.8	1.0	0.3							5
229	998534.1	growth factor independent 1	1.0	0.9	0.9	0.6	0.8	0.8	0.5							5
230	372377.6	phosphorylase, glycogen; liver (Hers disease, glycogen storage disease type VI)	0.9	1.0	1.0	0.8	0.7	0.3	0.4							5
231	1101412.4	trophinin-assisting protein (tastin)	0.9	1.0	0.9	0.9	0.8	0.5	0.4							5
232	261567.5	CDC28 protein kinase 2	0.8				1.0	0.9	0.7	0.3						5
233	232713.2	uracil-DNA glycosylase	1.0	0.9	1.0	0.8	0.9	0.4	0.6							5
234	214335.13	Homo sapiens E2F-related transcription factor (DP-1) mRNA, complete cds	0.9	1.0	1.0	0.8	0.8	0.4	0.6							5
235	331022.33	dihydropyrimidine dehydrogenase	1.0	1.0	1.0	0.9	0.7	0.9	0.4							5
236	332259.3	retinoblastoma-like 1 (p107)	0.9	0.9	1.0	0.7	0.8	0.4	0.8							5
237	253570.8	forkhead (Drosophila)-like 16	0.8	1.0	1.0	0.5	0.6	0.5	0.4							5
238	995529.5	cell division cycle 2, G1 to S and G2 to M	0.9	1.0	0.9	0.8	0.8	0.4	0.3							5
239	474435.16	Human MAC30 mRNA, 3' end	1.0	0.9	1.0	0.9	0.8	0.4	0.9							5
240	994861.1	Human chondroitin sulfate proteoglycan core protein mRNA, 3' end	0.8	0.9	1.0	0.9	0.9	0.5	0.3							5
241	g545708	natural killer cell group 7 sequence	1.0	1.0	1.0	0.8	0.8	0.8	0.4							5
242	347965.2	CD39 antigen	0.8	1.0	0.9	0.9	0.9	0.5	0.4							5
243	202361.1	small nuclear ribonucleoprotein polypeptide A	0.8	1.0	0.9	0.8	0.7	0.6	0.4							5
244	369950.12	DNA-damage-inducible transcript 1	0.8	0.8	0.8	0.9	1.0	0.5	0.4							5
245	331403.8	minichromosome maintenance deficient (S. cerevisiae) 5 (cell division cycle 46)	0.8				1.0	0.8	0.4	0.4						5
246	233889.3	CDC28 protein kinase 1	1.0	1.0	1.0	0.8	0.9	0.5	0.4							5
247	21148.4	nucleobindin 2	0.8	0.8	0.8	1.0	1.0	0.9	0.2							5
248	976749.1	replication factor C (activator 1) 4 (37kD)	1.0	0.8	1.0	0.9	0.8	0.4	0.7							5
249	252719.12	Human beta 3-endonoxin mRNA, long form and short form, complete cds	1.0	1.0	1.0	0.8	0.9	0.4	0.6							5
250	g6063478	G/T mismatch-binding protein	1.0	1.0	1.0	0.6	0.8	0.5	0.9							5
251	347314.3	serine/threonine kinase 15	0.9	1.0	0.8	0.7	0.7	0.5	0.3							5
252	g3213196	serine/threonine kinase 15	0.9	1.0	0.8	0.7	0.7	0.5	0.3							5
253	245184.3	transforming growth factor, beta-induced, 68kD	0.8	1.0	0.9	0.5	0.5	0.3	0.4							5
254	243574.11	cysteine-rich protein 1 (intestinal)	1.0	1.0	0.9	0.9	0.9	0.7	0.4							5
255	474826.6	nidogen (enactin)	0.8	1.0	0.9	1.0	0.5	0.3	0.2							5
256	997347.6	feline sarcoma viral (v-fes)/Fujinami avian sarcoma (PRCII) viral (v-fps) oncogene homolog	0.9	0.9	1.0	0.8	0.9	0.7	0.4							5
257	222049.1	H.sapiens mRNA for glutamine cyclotransferase	0.9	0.9	1.0	0.8	0.7	0.4	0.3							5

TABLE 1

SEQ ID NO	Incye ID	Gene Annotation	0h	0.5h	2.5h	4h	1d	2d	4d	Cluster
258	902659.8	small nuclear ribonucleoprotein polypeptide G	0.9	0.9	0.8	1.0	0.7	0.9	0.4	5
259	2508261	interferon, gamma-inducible protein 16	1.0	1.0	0.9	0.8	0.7	0.9	0.4	5
260	232945.12	RAD54 (S.cerevisiae)-like	1.0	1.0	1.0	0.8	0.5	0.5	0.4	5
261	445101.8	proliferating cell nuclear antigen	1.0	0.9	1.0	0.8	0.9	0.4	0.5	5
262	255750.1	metallothionein 3 (growth inhibitory factor (neurotrophic))	0.9	0.8	0.9	1.0	1.0	0.6	0.4	5
263	988231.7	interferon-induced protein 17	1.0	0.9	0.9	0.6	0.5	0.6	0.3	5
264	444902.6	interferon-inducible	0.8	1.0	0.7	0.8	0.6	0.8	0.4	5
265	407546.8	calreticulin	0.9	1.0	0.9	1.0	0.7	0.7	0.4	5
266	346511.4	2'-5'oligoadenylate synthetase 2	0.9	0.9	1.0	0.5	0.7	0.6	0.2	5
267	346511.5	2'-5'oligoadenylate synthetase 2	0.9	0.9	1.0	0.5	0.7	0.6	0.4	5
268	1098141.1	breast cancer 1, early onset	0.9	1.0	1.0	0.8	0.9	0.4	0.5	5
269	238089.2	exonuclease 1	0.9	0.9	1.0	0.8	0.6	0.3	0.4	5
270	1100105.3	CD74 antigen	0.9	1.0	0.9	0.8	0.5	0.5	0.3	6
271	474729.2	calpain 2	1.0	0.9	1.0	0.8	0.6	0.7	0.5	6
272	363000.3	complement component 2	0.9	1.0	1.0	0.9	0.6	0.6	0.4	6
273	395096.3	minichromosome maintenance deficient (S. cerevisiae) 2 (mitotin)	0.9	0.9	0.9	1.0	0.5	0.2	0.3	7
274	374086.1	high-mobility group (nonhistone chromosomal) protein 1	0.9	0.9	0.9	1.0	0.5	0.4	0.3	7
275	444495.4	small nuclear ribonucleoprotein polypeptide F	0.9	0.9	0.9	1.0	0.4	0.5	0.3	7
276	474876.2	Human mRNA for Sm protein F	0.9	0.9	0.9	1.0	0.4	0.5	0.3	7

TABLE 2

SEQ ID NO	Incye ID	CloneID	Start	Stop
1	440295.1	3034487	2203	3330
2	g34387	79576	17	1395
3	247178.2	567292	3432	4661
4	567938	567938	669	1472
5	351122.2	682741	682	1151
6	481379.9	1219315	3730	4136
7	215391.7	1269046	861	1902
8	243812.1	1321761	698	1663
9	1085755.1	1376121	650	1291
10	347809.3	1516886	3615	4644
11	331734.4	1595081	334	876
12	116840.38	1606119	847	1284
13	903565.11	1672574	4016	4325
14	903565.8	1672574	1242	1787
15	474310.13	1672744	1281	3844
16	413006.13	1732479	1143	1904
17	76460.2	1749883	350	831
18	474374.4	2679117	1030	2542
19	427792.8	2806166	611	1994
20	364482.3	3178719	1331	1922
21	978487.1	3178719	54	526
22	410626.2	3602501	1153	1796
23	234480.6	1238577	298	1045
24	253542.2	1734561	1606	2355
25	234202.24	1995380	50	901
26	253946.4	2172334	1098	2397
27	348801.1	2203834	15	663
28	980611.1	2213735	1431	2249
29	283885.8	2415989	918	1576
30	348196.33	2852561	1095	1848
31	256009.4	3068454	4496	4936
32	481594.12	3211396	649	1098
33	978788.1	3211396	562	678
34	335171.1	3229778	5149	5670
35	998433.2	63038	2	1032
36	221928.9	674714	1199	1386
37	331291.3	1579487	3345	3833
38	233331.3	1712888	2259	2939
39	474682.2	1969044	1006	1509
40	3161.7	1484773	270	603
41	984248.1	1516047	968	1760
42	196590.2	1607510	723	1118
43	255109.1	1607510	304	429
44	238622.1	1669780	27	957
45	334385.3	1890138	6050	6479
46	998997.1	1640161	1104	1496
47	200578.1	1397926	1138	2288
48	208134.1	2293931	2596	2746
49	153659.2	519653	1355	1884
50	241930.15	1512213	1017	1540
51	413466.5	1985104	760	1861
52	3249239	3249239	740	2957
53	337518.18	3506985	151	500
54	g3116213	2170638	194	1738
55	g5912216	2170638	466	2010
56	992917.1	27775	386	910

TABLE 2

SEQ ID NO	Incye ID	CloneID	Start	Stop
57	411424.12	126888	88	599
58	995600.17	237730	799	1151
59	441292.7	1624024	1208	2738
60	42176.5	1650238	89	2297
61	234537.3	1718651	3061	3639
62	470468.21	1806435	800	1521
63	240120.3	1862257	472	2312
64	28779.3	2220923	8	785
65	238627.2	2555673	145	855
66	254107.1	2394637	3297	4186
67	330908.2	2987878	2395	3815
68	g687589	1403041	170	1592
69	197975.11	1560143	2995	4347
70	227928.2	1719657	1717	2098
71	258785.7	1738168	3345	3738
72	977757.3	1830303	4598	7208
73	232773.2	1958631	2317	2963
74	g6634024	2378601	697	1808
75	g4589571	2902846	3036	3495
76	334370.3	3335055	1195	2483
77	980461.1	4003857	293	702
78	422969.4	1369536	3174	4219
79	244150.4	1429306	1803	5218
80	410257.11	1965978	2763	3546
81	28253.3	75549	425	661
82	g31670	155892	1884	2388
83	977552.1	155904	993	1501
84	977552.2	155904	281	789
85	347829.6	185448	334	2046
86	251776.11	418731	2766	3414
87	343674.9	450618	919	1425
88	479136.1	885297	2474	3905
89	1078147.1	1000508	1289	2523
90	474275.1	1297562	4431	5815
91	g403532	1320658	1213	2771
92	242114.16	1361963	2792	4530
93	445186.7	1375107	243	1602
94	474496.2	1401002	1855	2387
95	257114.7	1424573	867	1703
96	984005.1	1446475	68	809
97	977667.1	1447909	1146	1705
98	996862.4	1449337	50	660
99	364940.19	1479437	2522	5308
100	1041140.4	2220025	448	2428
101	408246.2	1595756	890	1796
102	902740.4	1670773	373	845
103	475486.9	1694039	483	1534
104	233778.9	1695477	970	1500
105	350392.3	1719058	2417	4573
106	458045.4	1720114	2424	4196
107	471362.17	1720149	286	1089
108	336716.3	1749727	1431	2412
109	995211.5	1782172	1192	3936
110	238824.2	1841989	1082	2360
111	474592.3	1846463	2393	3281

TABLE 2

SEQ ID NO	Incye ID	CloneID	Start	Stop
112	431338.2	1890243	876	2359
113	412631.5	1907232	12440	12947
114	350480.6	1975575	1928	2274
115	350521.15	2078364	1075	1890
116	445076.9	2449986	356	1578
117	995028.4	2483605	132	606
118	245008.4	2900572	2225	3836
119	350895.1	2952864	440	1439
120	434265.5	3421442	740	1203
121	427813.14	3553729	6501	7091
122	14704.3	3742428	1000	2154
123	344240.2	3943651	2050	2530
124	239694.6	4144156	2287	3032
125	255772.2	433573	1321	2758
126	232066.3	514726	2248	2778
127	246504.1	570512	750	2361
128	986123.22	1522716	1264	1904
129	898945.14	1525829	830	1628
130	236208.16	1682642	2775	3010
131	246531.2	1692164	1374	1602
132	238586.2	1699587	427	910
133	245532.7	1804548	1196	1992
134	200972.2	1850135	1308	2138
135	348061.1	1867652	687	2825
136	233711.7	1902929	1146	2151
137	256043.19	1910469	1137	1625
138	445012.6	1911016	6908	7424
139	g463906	1959969	29	523
140	475621.1	1967160	1459	1932
141	216063.17	2174920	381	1030
142	1099498.9	2369312	463	601
143	1099076.1	2537805	299	664
144	902119.3	2594308	1	836
145	g2982500	2720693	3244	4316
146	1097580.4	2733928	126	1118
147	391851.1	2868138	490	851
148	13105.9	2921194	462	1362
149	356248.4	2967860	1184	5905
150	331045.1	3001809	2899	4165
151	482480.3	3003077	2356	2814
152	245099.8	3119252	1681	2281
153	245481.2	3606947	243	1980
154	225021.4	146667	1489	2773
155	451767.28	418041	66	864
156	902142.11	518094	1155	1925
157	291095.5	719318	4551	5099
158	332919.4	924319	781	1262
159	387130.26	1439677	133	3079
160	410580.13	1445767	645	2172
161	251715.1	1705208	1702	2383
162	1799017F6	1799017	1	459
163	348891.1	1877829	777	1288
164	903956.15	1879023	1328	3314
165	235184.1	1988432	660	979
166	330948.3	2054252	3800	4487

TABLE 2

SEQ ID NO	Incye ID	CloneID	Start	Stop
167	994057.1	2055534	4841	5856
168	197301.4	2591814	937	3287
169	476016.17	3142624	419	1641
170	1098409.1	3603037	1338	2945
171	202023.6	160822	2991	4412
172	350423.5	1624459	56	1711
173	1100023.1	2895245	512	2019
174	414196.8	1222317	1	476
175	331106.6	1518328	1675	2011
176	g180670	1558081	1074	2596
177	236574.12	1559730	2628	3663
178	1000033.6	1600726	1229	4571
179	37567.22	1672930	185	829
180	995610.1	1673876	1688	2958
181	1702374	1702374	1038	3139
182	427883.47	1881243	-14	435
183	93687.6	1907952	1259	1638
184	414100.4	1931275	323	1871
185	235148.4	1987127	199	873
186	430039.3	1988710	932	1388
187	348110.2	2158373	2064	2281
188	1098815.7	2831248	393	924
189	474491.18	3747901	190	1319
190	474491.19	3747901	267	1396
191	419031.5	1988019	1627	2079
192	399658.1	3967402	559	1697
193	474913.3	3138128	3685	4570
194	199898.3	1217764	271	932
195	253550.14	1447903	441	2458
196	331597.2	1975944	3277	4284
197	997377.1	1526665	256	788
198	42869.3	2016960	162	835
199	248306.1	2474163	198	1710
200	247220.15	39817	846	1550
201	26662.3	485111	7807	10242
202	977509.3	494905	166	2605
203	221961.2	633460	945	1672
204	246824.1	1488852	319	789
205	407557.2	1501556	1391	2055
206	372981.2	1576329	551	906
207	201409.6	1622987	791	1342
208	331025.1	2242674	1364	2791
209	247515.1	2399253	606	1044
210	199471.2	2414624	125	1464
211	2916753	2916753	114	1109
212	343899.2	3622417	97	897
213	335775.2	3771476	1324	2846
214	232714.5	277897	479	649
215	305039.4	522991	1009	1391
216	233603.2	1604056	1	190
217	330930.1	1740384	6110	6515
218	247289.1	1901271	2050	2558
219	331033.1	1970111	1079	2827
220	1098766.1	2113618	939	1345
221	245632.3	2396287	2506	2827

TABLE 2

SEQ ID NO	Incyte ID	CloneID	Start	Stop
222	333461.2	4003342	1541	2067
223	347876.6	103669	290	2971
224	413842.1	173591	1	366
225	235867.2	343653	1519	2159
226	199636.2	428665	800	2432
227	2234.3	627654	124	682
228	1000139.13	690313	557	1118
229	998534.1	885129	1823	2762
230	372377.6	1315115	2445	2827
231	1101412.4	1340504	440	938
232	261567.5	1384823	32	576
233	232713.2	1405652	436	2078
234	214335.13	1439126	904	2629
235	331022.33	1485479	3584	4373
236	332259.3	1513664	2446	3297
237	253570.8	1516301	467	1240
238	995529.5	1525795	337	1781
239	474435.16	1610523	1323	2032
240	994861.1	1623237	9447	10862
241	g545708	1668794	39	798
242	347965.2	1672749	734	1895
243	202361.1	1700047	1121	1558
244	369950.12	1702350	840	1323
245	331403.8	1746529	2145	2537
246	233889.3	1758241	687	941
247	21148.4	1760517	462	1583
248	976749.1	1773638	1907	2394
249	252719.12	1809385	61	1008
250	g6063478	1926006	3426	4214
251	347314.3	2007691	1146	2115
252	g3213196	2007691	1240	2209
253	245184.3	2056395	946	2668
254	243574.11	2121863	581	836
255	474826.6	2175008	4211	4706
256	997347.6	2195430	2222	2834
257	222049.1	2365295	62	588
258	902659.8	2449837	403	806
259	2508261	2508261	541	2671
260	232945.12	2645840	968	2501
261	445101.8	2781405	911	1316
262	255750.1	2901811	129	471
263	988231.7	2902903	435	1058
264	444902.6	2949427	92	664
265	407546.8	2970280	564	1888
266	346511.4	3214930	17	588
267	346511.5	3214930	81	652
268	1098141.1	3563535	4062	4478
269	238089.2	4385292	1184	3103
270	1100105.3	1001730	91	1412
271	474729.2	1443061	319	2116
272	363000.3	1510424	965	2927
273	395096.3	1723834	2914	3253
274	374086.1	1813133	89	862
275	444495.4	2104530	743	1309
276	474876.2	2104530	148	472

TABLE 3

SEQ ID NO	Incyte ID	Gene Annotation	0h	2.5h	5h	7.5h	1d	2d	4d	max up	max down	max diff
1	3034487	solute carrier family 4, sodium bicarbonate cotransporter, member 6	1.00	0.96	1.15	2.02	1.20	1.45	3.51	3.51	0.96	3.51
2	g34387	annexin I (lipocortin I)	1.00	1.23	1.33	1.23	2.83	2.54	1.86	2.83	1.00	2.83
3	247178.2	sperm surface protein	1.00	0.99	1.11	1.24	2.00	1.93	2.00	2.00	0.99	2.00
4	567938	integrin, alpha X (antigen CD11C (p150), alpha polypeptide)	1.00	1.03	1.05	0.95	2.11	1.53	2.45	2.45	0.95	2.45
5	351122.2	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)	1.00	1.05	1.07	0.87	3.20	2.22	2.61	3.20	0.87	3.20
6	481379.9	paired basic amino acid cleaving enzyme (furin, membrane associated receptor protein)	1.00	1.08	1.01	1.03	2.06	1.99	1.57	2.06	1.00	2.06
7	215391.7	phosphoglucuronate dehydrogenase	1.00	1.47	1.24	1.78	2.59	2.49	2.54	2.59	1.00	2.59
8	243812.1	protein kinase mitogen-activated 13	1.00	1.17	1.19	0.96	2.27	1.91	2.68	2.68	0.96	2.68
9	1085755.1	folate receptor 1 (adult)	1.00	0.80	1.00	1.07	2.28	1.89	2.16	2.28	0.80	2.28
10	347809.3	solute carrier family 6 (neurotransmitter transporter, taurine), member 6	1.00	1.06	1.33	1.21	2.65	2.13	3.06	3.06	1.00	3.06
11	331734.4	prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)	1.00	1.20	1.17	1.30	2.08	1.50	1.72	2.08	1.00	2.08
12	116840.38	interferon regulatory factor 3	1.00	1.15	1.02	0.94	2.31	2.37	1.85	2.37	0.94	2.37
13	903565.11	proprotein convertase subtilisin/kexin type 4	1.00	1.11	1.18	1.13	2.12	1.68	2.50	2.50	1.00	2.50
14	903565.8	Human mRNA for PACE4E-I, complete cds.	1.00	1.11	1.18	1.13	2.12	1.68	2.50	2.50	1.00	2.50
15	474310.13	transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase)	1.00	1.20	1.09	0.78	2.17	3.20	3.29	3.29	0.78	3.29
16	413006.13	differentiated Embryo Chondrocyte expressed gene 1	1.00	1.17	1.03	1.07	2.16	2.25	1.59	2.25	1.00	2.25
17	76460.2	pyridoxal (pyridoxine, vitamin B6) kinase	1.00	1.23	1.16	1.54	2.51	1.61	1.90	2.51	1.00	2.51
18	474374.4	pim-1 oncogene	1.00	1.16	1.09	1.13	3.56	2.75	3.02	3.56	1.00	3.56
19	427792.8	cathepsin B	1.00	1.25	1.01	1.51	2.13	1.78	1.37	2.13	1.00	2.13
20	364482.3	carnitine palmitoyltransferase I, liver	1.00	0.81	0.98	1.25	2.08	2.06	1.61	2.08	0.81	2.08
21	978487.1	carnitine palmitoyltransferase I, liver	1.00	0.81	0.98	1.25	2.08	2.06	1.61	2.08	0.81	2.08
22	410626.2	Human retinoid X receptor-gamma mRNA, complete cds	1.00	1.08	1.19	1.66	2.48	2.51	3.09	3.09	1.00	3.09
23	234480.6	glutaredoxin (thioltransferase)	1.00	0.91	0.91	0.78	3.65	3.13	1.08	3.65	0.78	3.65
24	253542.2	dual specificity phosphatase 5	1.00	0.92	0.84	1.01	3.83	3.38	2.23	3.83	0.84	3.83
25	234202.24	microsomal glutathione S-transferase 1	1.00	0.93	1.02	1.28	3.07	2.33	1.68	3.07	0.93	3.07
26	253946.4	interleukin 6 signal transducer (gp130, oncostatin M receptor)	1.00	1.01	1.29	1.07	2.04	0.94	2.24	2.24	0.94	2.24
27	348801.1	pro-platelet basic protein	1.00	1.01	1.03	1.00	3.77	3.69	1.81	3.77	1.00	3.77
28	980611.1	matrilin 1, cartilage matrix protein	1.00	0.94	0.92	0.90	2.86	0.73	1.25	2.86	0.73	2.86
29	283885.8	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 4	1.00	1.13	1.08	0.88	2.64	1.06	1.75	2.64	0.88	2.64
30	348196.33	antigen identified by monoclonal antibodies 4F2, TRA1.10, TROP4, and T43	1.00	1.14	0.98	1.35	2.96	2.07	1.64	2.96	0.98	2.96
31	236009.4	AHNK nucleoprotein (desmoyokin)	1.00	1.17	1.33	0.98	2.32	2.35	0.98	2.35	0.98	2.35
32	481594.12	Human RACH1 (RACH1) mRNA, complete cds	1.00	1.24	1.27	0.72	2.59	0.79	0.79	2.59	0.72	2.59

TABLE 3

SEQ ID NO	Incyte ID	Gene Annotation	max up										max down										max diff
			50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	
33	978788.1	Human RACH1 (RACH1) mRNA, complete cds	1.00	1.24	1.27	1.07	2.59	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	2.59
34	335171.1	integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)	1.00	1.13	1.16	1.16	0.68	2.13	1.10	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34
35	998433.2	ESTs, Highly similar to DIAMINE ACETYLTRANSFERASE [H.sapiens]	1.00	1.22	1.15	1.38	2.81	2.41	2.27	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81
36	221928.9	ESTs	1.00	0.94	1.02	1.09	3.25	2.26	2.72	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
37	331291.3	Homo sapiens mRNA for KIAA0291 gene, partial cds	1.00	1.26	1.17	1.15	2.42	1.44	1.65	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42
38	233331.3	Homo sapiens KIAA0439 mRNA, partial cds	1.00	1.18	1.11	0.80	2.12	2.75	2.47	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
39	474682.2	ESTs, Weakly similar to W01A11.2 gene product [C.elegans]	1.00	1.17	1.34	1.27	3.61	2.29	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71
40	3161.7	ESTs, Weakly similar to (define not available 4529890) [H.sapiens]	1.00	1.06	1.02	0.84	2.84	1.13	1.03	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84
41	984248.1	ESTs	1.00	1.02	1.01	0.73	2.14	0.75	1.37	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14
42	196590.2	ESTs	1.00	1.12	1.08	0.76	2.41	0.82	0.75	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
43	255109.1	ESTs	1.00	1.12	1.08	0.76	2.41	0.82	0.75	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
44	238622.1	Human clone 46690 brain expressed mRNA from chromosome X	1.00	1.06	0.93	0.77	2.11	0.95	2.04	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11
45	334385.3	Homo sapiens mRNA for KIAA0284 gene, partial cds	1.00	1.20	1.13	0.87	2.00	0.83	1.39	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
46	998997.1	ESTs	1.00	1.05	1.01	2.37	0.84	0.93	1.18	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37
47	200578.1	ESTs	1.00	1.18	1.25	1.75	5.54	5.02	3.11	5.54	5.54	5.54	5.54	5.54	5.54	5.54	5.54	5.54	5.54	5.54	5.54	5.54	5.54
48	208134.1	ESTs	1.00	1.17	1.09	0.81	3.53	2.33	4.59	4.59	4.59	4.59	4.59	4.59	4.59	4.59	4.59	4.59	4.59	4.59	4.59	4.59	4.59
49	153659.2	interleukin 1 receptor antagonist	1.00	1.33	1.29	1.26	2.00	3.16	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88
50	241930.15	liver X receptor, alpha	1.00	1.13	1.28	2.29	2.15	2.27	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34
51	413466.5	adipose differentiation-related protein; adipophilin	1.00	1.62	2.66	4.30	7.11	7.12	14.12	14.12	14.12	14.12	14.12	14.12	14.12	14.12	14.12	14.12	14.12	14.12	14.12	14.12	14.12
52	3249239	colony stimulating factor 1 (macrophage)	1.00	1.20	1.18	1.24	2.42	2.41	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.73
53	337518.18	CD36 antigen (collagen type I receptor, thrombospondin receptor)	1.00	1.19	1.39	2.00	3.49	2.68	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32
54	g3116213	SH3 binding protein	1.00	1.25	1.10	1.50	4.20	3.19	2.44	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20
55	g5912216	SH3 binding protein	1.00	1.25	1.10	1.50	4.20	3.19	2.44	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20
171	202023.6	3-hydroxy-3-methylglutaryl-Coenzyme A reductase	1.00	0.96	0.87	0.50	0.52	0.68	0.61	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.01
172	350423.5	farnesyl-diphosphate farnesyltransferase 1	1.00	1.19	1.05	0.49	0.47	0.55	0.54	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	2.14
173	1100023.1	cytochrome P450, 51 (lanosterol 14-alpha-demethylase)	1.00	1.31	1.33	0.62	0.41	0.59	0.70	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	2.44
174	414196.8	S100 calcium-binding protein A4	1.00	1.06	1.06	0.97	0.34	0.61	0.41	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	2.91
175	331106.6	integrin, alpha 6	1.00	0.94	1.05	1.08	0.45	0.76	0.81	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	2.23
176	g180670	matrix metalloproteinase 2 (gelatinase A, 72kD type IV collagenase)	1.00	1.22	1.13	0.92	0.48	0.72	0.67	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	2.10
177	236574.12	macrophage-associated antigen	1.00	1.17	1.20	0.95	0.40	0.54	1.04	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	2.48
178	1000033.6	alpha-2-macroglobulin	1.00	1.09	1.01	0.85	0.39	0.85	1.03	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	2.57
179	37567.22	RAN binding protein 1	1.00	0.90	0.98	0.99	0.49	0.56	0.52	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.04

TABLE 3

SEQ ID NO	Incye ID	Gene Annotation	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375	380	385	390	395	400	405	410	415	420	425	430	435	440	445	450	455	460	465	470	475	480	485	490	495	500	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575	580	585	590	595	600	605	610	615	620	625	630	635	640	645	650	655	660	665	670	675	680	685	690	695	700	705	710	715	720	725	730	735	740	745	750	755	760	765	770	775	780	785	790	795	800	805	810	815	820	825	830	835	840	845	850	855	860	865	870	875	880	885	890	895	900	905	910	915	920	925	930	935	940	945	950	955	960	965	970	975	980	985	990	995	1000	1005	1010	1015	1020	1025	1030	1035	1040	1045	1050	1055	1060	1065	1070	1075	1080	1085	1090	1095	1100	1105	1110	1115	1120	1125	1130	1135	1140	1145	1150	1155	1160	1165	1170	1175	1180	1185	1190	1195	1200	1205	1210	1215	1220	1225	1230	1235	1240	1245	1250	1255	1260	1265	1270	1275	1280	1285	1290	1295	1300	1305	1310	1315	1320	1325	1330	1335	1340	1345	1350	1355	1360	1365	1370	1375	1380	1385	1390	1395	1400	1405	1410	1415	1420	1425	1430	1435	1440	1445	1450	1455	1460	1465	1470	1475	1480	1485	1490	1495	1500	1505	1510	1515	1520	1525	1530	1535	1540	1545	1550	1555	1560	1565	1570	1575	1580	1585	1590	1595	1600	1605	1610	1615	1620	1625	1630	1635	1640	1645	1650	1655	1660	1665	1670	1675	1680	1685	1690	1695	1700	1705	1710	1715	1720	1725	1730	1735	1740	1745	1750	1755	1760	1765	1770	1775	1780	1785	1790	1795	1800	1805	1810	1815	1820	1825	1830	1835	1840	1845	1850	1855	1860	1865	1870	1875	1880	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950	1955	1960	1965	1970	1975	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065	2070	2075	2080	2085	2090	2095	2100	2105	2110	2115	2120	2125	2130	2135	2140	2145	2150	2155	2160	2165	2170	2175	2180	2185	2190	2195	2200	2205	2210	2215	2220	2225	2230	2235	2240	2245	2250	2255	2260	2265	2270	2275	2280	2285	2290	2295	2300	2305	2310	2315	2320	2325	2330	2335	2340	2345	2350	2355	2360	2365	2370	2375	2380	2385	2390	2395	2400	2405	2410	2415	2420	2425	2430	2435	2440	2445	2450	2455	2460	2465	2470	2475	2480	2485	2490	2495	2500	2505	2510	2515	2520	2525	2530	2535	2540	2545	2550	2555	2560	2565	2570	2575	2580	2585	2590	2595	2600	2605	2610	2615	2620	2625	2630	2635	2640	2645	2650	2655	2660	2665	2670	2675	2680	2685	2690	2695	2700	2705	2710	2715	2720	2725	2730	2735	2740	2745	2750	2755	2760	2765	2770	2775	2780	2785	2790	2795	2800	2805	2810	2815	2820	2825	2830	2835	2840	2845	2850	2855	2860	2865	2870	2875	2880	2885	2890	2895	2900	2905	2910	2915	2920	2925	2930	2935	2940	2945	2950	2955	2960	2965	2970	2975	2980	2985	2990	2995	3000	3005	3010	3015	3020	3025	3030	3035	3040	3045	3050	3055	3060	3065	3070	3075	3080	3085	3090	3095	3100	3105	3110	3115	3120	3125	3130	3135	3140	3145	3150	3155	3160	3165	3170	3175	3180	3185	3190	3195	3200	3205	3210	3215	3220	3225	3230	3235	3240	3245	3250	3255	3260	3265	3270	3275	3280	3285	3290	3295	3300	3305	3310	3315	3320	3325	3330	3335	3340	3345	3350	3355	3360	3365	3370	3375	3380	3385	3390	3395	3400	3405	3410	3415	3420	3425	3430	3435	3440	3445	3450	3455	3460	3465	3470	3475	3480	3485	3490	3495	3500	3505	3510	3515	3520	3525	3530	3535	3540	3545	3550	3555	3560	3565	3570	3575	3580	3585	3590	3595	3600	3605	3610	3615	3620	3625	3630	3635	3640	3645	3650	3655	3660	3665	3670	3675	3680	3685	3690	3695	3700	3705	3710	3715	3720	3725	3730	3735	3740	3745	3750	3755	3760	3765	3770	3775	3780	3785	3790	3795	3800	3805	3810	3815	3820	3825	3830	3835	3840	3845	3850	3855	3860	3865	3870	3875	3880	3885	3890	3895	3900	3905	3910	3915	3920	3925	3930	3935	3940	3945	3950	3955	3960	3965	3970	3975	3980	3985	3990	3995	4000	4005	4010	4015	4020	4025	4030	4035	4040	4045	4050	4055	4060	4065	4070	4075	4080	4085	4090	4095	4100	4105	4110	4115	4120	4125	4130	4135	4140	4145	4150	4155	4160	4165	4170	4175	4180	4185	4190	4195	4200	4205	4210	4215	4220	4225	4230	4235	4240	4245	4250	4255	4260	4265	4270	4275	4280	4285	4290	4295	4300	4305	4310	4315	4320	4325	4330	4335	4340	4345	4350	4355	4360	4365	4370	4375	4380	4385	4390	4395	4400	4405	4410	4415	4420	4425	4430	4435	4440	4445	4450	4455	4460	4465	4470	4475	4480	4485	4490	4495	4500	4505	4510	4515	4520	4525	4530	4535	4540	4545	4550	4555	4560	4565	4570	4575	4580	4585	4590	4595	4600	4605	4610	4615	4620	4625	4630	4635	4640	4645	4650	4655	4660	4665	4670	4675	4680	4685	4690	4695	4700	4705	4710	4715	4720	4725	4730	4735	4740	4745	4750	4755	4760	4765	4770	4775	4780	4785	4790	4795	4800	4805	4810	4815	4820	4825	4830	4835	4840	4845	4850	4855	4860	4865	4870	4875	4880	4885	4890	4895	4900	4905	4910	4915	4920	4925	4930	4935	4940	4945	4950	4955	4960	4965	4970	4975	4980	4985	4990	4995	5000	5005	5010	5015	5020	5025	5030	5035	5040	5045	5050	5055	5060	5065	5070	5075	5080	5085	5090	5095	5100	5105	5110	5115	5120	5125	5130	5135	5140	5145	5150	5155	5160	5165	5170	5175	5180	5185	5190	5195	5200	5205	5210	5215	5220	5225	5230	5235	5240	5245	5250	5255	5260	5265	5270	5275	5280	5285	5290	5295	5300	5305	5310	5315	5320	5325	5330	5335	5340	5345	5350	5355	5360	5365	5370	5375	5380	5385	5390	5395	5400	5405	5410	5415	5420	5425	5430	5435	5440	5445	5450	5455	5460	5465	5470	5475	5480	5485	5490	5495	5500	5505	5510	5515	5520	5525	5530	5535	5540	5545	5550	5555	5560	5565	5570	5575	5580	5585	5590	5595	5600	5605	5610	5615	5620	5625	5630	5635	5640	5645	5650	5655	5660	5665	5670	5675	5680	5685	5690	5695	5700	5705	5710	5715	5720	5725	5730	5735	5740	5745	5750	5755	5760	5765	5770	5775	5780	5785	5790	5795	5800	5805	5810	5815	5820	5825	5830	5835	5840	5845	5850	5855	5860	5865	5870	5875	5880	5885	5890	5895	5900	5905	5910	5915	5920	5925	5930	5935	5940	5945	5950	5955	5960	5965	5970	5975	5980	5985	5990	5995	6000	6005	6010	6015	6020	6025	6030	6035	6040	6045	6050	6055	6060	6065	6070	6075	6080	6085	6090	6095	6100	6105	6110	6115	6120	6125	6130	6135	6140	6145	6150	6155	6160	6165	6170	6175	6180	6185	6190	6195	6200	6205	6210	6215	6220	6225	6230	6235	6240	6245	6250	6255	6260	6265	6270	6275	6280	6285	6290	6295	6300	6305	6310	6315	6320	6325	6330	6335	6340	6345	6350	6355	6360	6365	6370	6375	6380	6385	6390	6395	6400	6405	6410	6415	6420	6425	6430	6435	6440	6445	6450	6455	6460	6465	6470	6475	6480	6485	6490	6495	6500	6505	6510	6515	6520	6525	6530	6535	6540	6545	6550	6555	6560	6565	6570	6575	6580	6585	6590	6595	6600	6605	6610	6615	6620	6625	6630	6635	6640	6645	6650	6655	6660	6665	6670	6675	6680	6685	6690	6695	6700	6705	6710	6715	6720	6725	6730	6735	6740	6745	6750	6755	6760	6765	6770	6775	6780	6785	6790	6795	6800	6805	6810	6815	6820	6825	6830	6835	6840	6845	6850	6855	6860	6865	6870	6875	6880	6885	6890	6895	6900	6905	6910	6915	6920	6925	6930	6935	6940	
-----------	----------	-----------------	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	--

51

SEQ ID NO	Incye ID	Gene Annotation	0h	0.5h	1h	2h	4h	max up	max down	max diff
47	200578.1	EST's	1.00	1.18	1.25	1.75	5.54	5.02	3.11	5.54
48	208134.1	EST's	1.00	1.17	1.09	0.81	3.53	2.33	4.59	4.59
49	153659.2	interleukin 1 receptor antagonist	1.00	1.33	1.29	1.26	2.00	3.16	4.88	4.88
50	241930.15	liver: X receptor, alpha	1.00	1.13	1.28	2.29	2.15	2.27	4.34	4.34
51	413466.5	adipose differentiation-related protein; adipophilin	1.00	1.62	2.66	4.30	7.11	7.12	14.12	14.12
52	3249239	colony stimulating factor 1 (macrophage)	1.00	1.20	1.18	1.24	2.42	2.41	4.73	4.73
53	337518.18	CD36 antigen (collagen type I receptor, thrombospondin receptor)	1.00	1.19	1.39	2.00	3.49	2.68	4.32	4.32
54	g3116213	SH3 binding protein	1.00	1.25	1.10	1.50	4.20	3.19	2.44	4.20
55	g5912216	SH3 binding protein	1.00	1.25	1.10	1.50	4.20	3.19	2.44	4.20
56	992917.1	ferritin, heavy polypeptide 1	1.00	1.02	1.04	1.18	1.70	1.96	4.90	4.90
57	411424.12	LIM and senescent cell antigen-like domains 1	1.00	1.03	1.16	1.65	1.25	1.61	4.11	4.11
58	995600.17	Homo sapiens clone 24649 mRNA sequence	1.00	1.00	0.99	1.07	1.04	1.03	5.85	5.85
59	441292.7	epithelial membrane protein 1	1.00	1.18	1.05	1.30	1.50	3.13	6.00	6.00
60	42176.5	Down syndrome candidate region 1	1.00	1.34	1.53	1.85	1.17	2.49	6.83	6.83
61	234537.3	5' nucleotidase (CD73)	1.00	1.00	1.08	1.00	1.69	2.36	6.22	6.22
62	470468.21	uridine phosphorylase	1.00	1.30	1.03	1.18	1.93	2.46	5.37	5.37
63	240120.3	diphtheria toxin receptor (heparin-binding epidermal growth factor-like growth factor)	1.00	1.03	0.95	0.98	1.82	2.95	7.00	7.00
64	28779.3	small inducible cytokine subfamily A (Cys-Cys), member 20	1.00	0.97	1.00	1.26	0.56	2.02	8.18	8.18
65	238627.2	BCL2-related protein A1	1.00	1.12	0.97	1.25	0.42	1.69	3.85	3.85
66	254107.1	thrombomodulin	1.00	1.05	0.93	0.89	2.12	6.24	2.12	6.24
67	330908.2	leukemia inhibitory factor (cholinergic differentiation factor)	1.00	1.08	1.06	0.79	1.40	3.87	1.04	3.87
194	199898.3	Human G0S2 protein gene, complete cds	1.00	1.07	1.10	0.87	0.21	0.41	0.56	1.10
195	253550.14	insulin-like growth factor binding protein 3	1.00	1.06	1.06	1.37	0.28	0.90	1.18	1.37
196	331597.2	cytochrome b-245, beta polypeptide (chronic granulomatous disease)	1.00	1.14	1.08	1.02	0.25	0.28	0.16	1.14
197	997377.1	ribonuclease, RNase A family, 3 (eosinophil cationic protein)	1.00	0.99	0.99	0.75	1.25	0.77	0.28	1.25
198	42869.3	cathepsin G	1.00	1.14	1.04	0.80	1.60	0.84	0.20	1.60
199	248306.1	carbonic anhydrase II	1.00	0.92	1.03	0.92	1.46	1.19	0.13	1.46
200	247220.15	thymidylate synthetase	1.00	1.14	1.12	1.12	0.77	0.23	0.25	1.14
201	26662.3	centromere protein F (350/400kD, mitotin)	1.00	1.24	1.15	1.03	0.87	0.38	0.29	1.24
202	977509.3	v-myb avian myeloblastosis viral oncogene homolog-like 2	1.00	1.21	1.10	0.81	0.77	0.25	0.27	1.21
203	221961.2	myeloid cell nuclear differentiation antigen	1.00	1.04	1.22	0.82	0.99	0.95	0.18	1.22
204	246824.1	ribonuclease, RNase A family, 2 (liver, eosinophil-derived neurotoxin)	1.00	1.15	1.03	0.97	1.17	0.71	0.19	1.17

TABLE 4

SEQ ID NO	Incye ID	Gene Annotation	0b	0.5b	2.5b	5b	1d	2d	4d	max up	max down	max diff	down-regulated
205	407557.2	cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)	1.00	1.21	1.03	0.80	1.09	0.43	0.24	1.21	0.24	4.17	
206	372981.2	Homo sapiens ZW10 interactor Zwint mRNA, complete cds	1.00	1.10	1.07	1.17	0.62	0.30	0.29	1.17	0.29	3.48	
207	201409.6	Fc fragment of IgG, high affinity Ia, receptor for (CD64)	1.00	1.25	1.07	1.21	0.90	0.58	0.23	1.25	0.23	4.27	
208	331025.1	Homo sapiens mitotic centromere-associated kinesin mRNA, complete cds	1.00	1.10	1.04	0.91	0.90	0.48	0.26	1.10	0.26	3.89	
209	247515.1	elastase 2, neutrophil	1.00	0.96	1.11	0.95	1.11	1.08	0.29	1.11	0.29	3.48	
210	199471.2	MAD2 (mitotic arrest deficient, yeast, homolog)-like 1	1.00	1.05	1.02	0.69	0.99	0.28	0.31	1.05	0.28	3.60	
211	2916753	high-mobility group (nonhistone chromosomal) protein 2	1.00	1.05	0.99	1.25	0.94	0.36	0.19	1.25	0.19	5.37	
212	343899.2	hyaluronan-mediated motility receptor (RHAMM)	1.00	1.08	1.14	0.94	0.88	1.02	0.26	1.14	0.26	3.81	
213	335775.2	lamin B1	1.00	1.05	1.09	1.07	0.52	0.32	0.18	1.09	0.18	5.44	

CLAIMS

What is claimed is:

1. A composition comprising a plurality of polynucleotides that are differentially expressed in foam cell development and selected from SEQ ID NOs:1-276 or a complement thereof.
- 5 2. The composition of claim 1, wherein each of the polynucleotides is differentially expressed early in foam cell development and is selected from
 - (a) SEQ ID NOs:1-55;
 - (b) SEQ ID NOs:171-196; or
 - (c) a complement of (a) or (b).
- 10 3. The composition of claim 1, wherein each of the polynucleotides is differentially expressed greater than 3-fold and is selected from
 - (a) SEQ ID NOs:47-67;
 - (b) SEQ ID NOs:194-213; or
 - (c) a complement of (a) or (b).
- 15 4. The composition of claim 1, wherein the polynucleotides are immobilized on a substrate.
5. A high throughput method for detecting altered expression of one or more polynucleotides in a sample, the method comprising:
 - (a) hybridizing the composition of claim 2 with the sample, thereby forming one or more hybridization complexes;
 - 20 (b) detecting the hybridization complexes; and
 - (c) comparing the hybridization complexes with those of a standard, wherein each difference in the size and intensity of a hybridization complex indicates altered expression of a polynucleotide in the sample.
6. The method of claim 5, wherein the sample is from a subject with atherosclerosis and
25 comparison with a standard defines early, mid, and late stages of that disease.
7. A high throughput method of screening a library of molecules or compounds to identify a ligand which binds a polynucleotide, the method comprising:
 - (a) combining the composition of claim 1 with the library under conditions to allow specific binding; and
 - 30 (b) detecting specific binding between the polynucleotide and a molecule or compound, thereby identifying a ligand that specifically binds to the polynucleotide.
8. The method of claim 7 wherein the library is selected from DNA molecules, RNA molecules, peptide nucleic acids, mimetics, peptides, and proteins.
9. A method of obtaining an extended or full length gene from a library of nucleic acid
35 sequences, the method comprising:

- (a) arranging individual sequences on a substrate;
 - (a) hybridizing a polynucleotide selected from claim 1 with the sequences under conditions which allow specific binding;
 - (b) detecting hybridization between the polynucleotide and one or more sequences; and
 - 5 (c) isolating the sequences from the library, thereby obtaining extended or full length gene.
10. A substantially purified polynucleotide selected from SEQ ID NOs:35-48, 68-80, 192, 193, and 214-222.
11. An expression vector containing the polynucleotide of claim 10.
12. A host cell containing the expression vector of claim 11.
- 10 13. A method for producing a protein, the method comprising the steps of:
- (a) culturing the host cell of claim 12 under conditions for the expression of protein; and
 - (b) recovering the protein from the host cell culture.
14. A protein produced by the method of claim 13.
15. A high-throughput method for screening a library of molecules or compounds to identify at
- 15 least one ligand which specifically binds a protein, the method comprising:
- (a) combining the protein or a portion thereof of claim 14 with the library under conditions to allow specific binding; and
 - (b) detecting specific binding between the protein and a molecule or compound, thereby identifying a ligand which specifically binds the protein.
- 20 16. The method of claim 15 wherein the library is selected from DNA molecules, RNA molecules, PNAs, mimetics, peptides, proteins, agonists, antagonists, antibodies or their fragments, immunoglobulins, inhibitors, drug compounds, and pharmaceutical agents.
17. A method of purifying a ligand from a sample, the method comprising:
- a) combining the protein of claim 15 with a sample under conditions to allow specific
 - 25 binding;
 - b) recovering the bound protein; and
 - c) separating the protein from the ligand, thereby obtaining purified ligand.
18. A pharmaceutical composition comprising the protein of claim 14 in conjunction with a pharmaceutical carrier.
- 30 19. A purified antibody that specifically binds to the protein of claim 14.

1/2

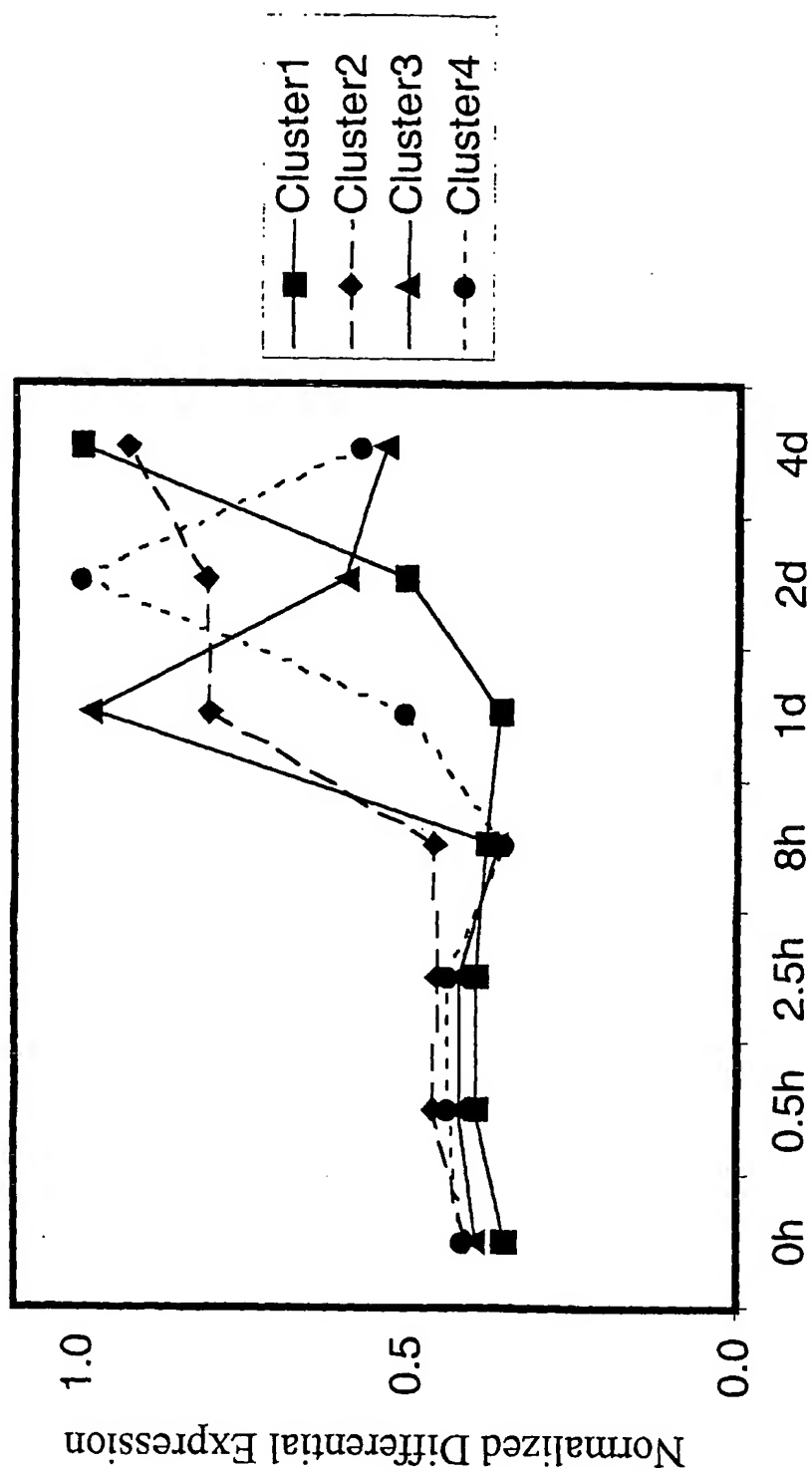


FIGURE 1A

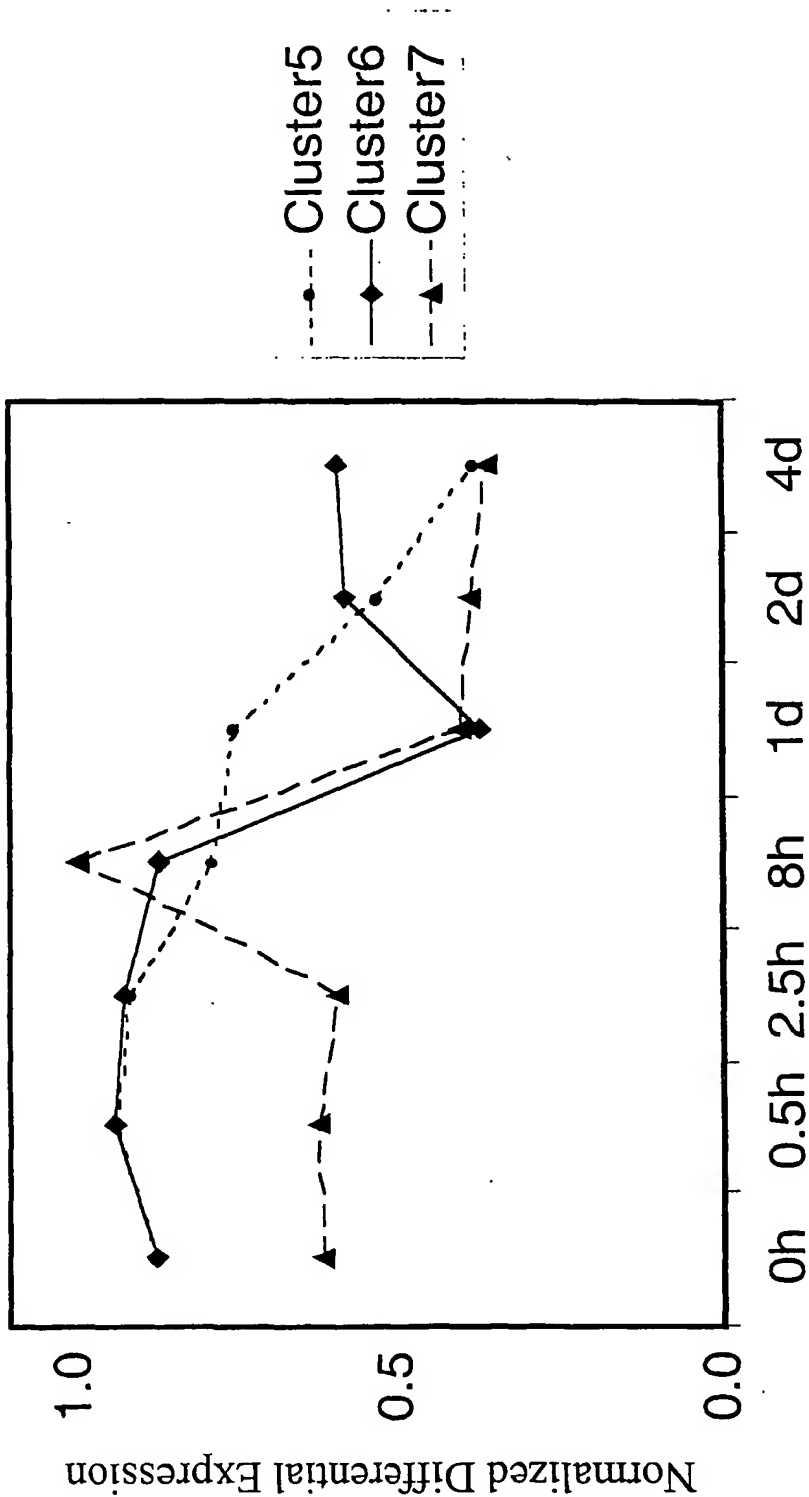


FIGURE 1B

<110> INCYTE GENOMICS, INC.
SHIFFMAN, Dov
SOMOGYI, Roland
LAWN, Richard M.
SEILHAMER, Jeffrey J.
PORTER, Gordon J.
MIKITA, Thomas
TAI, Julie

<120> GENES EXPRESSED IN FOAM CELL DIFFERENTIATION

<130> PA-0025 PCT

<140> To Be Assigned
<141> Herewith

<150> 60/195,106
<151> 2000-04-05

<160> 276

<170> PERL Program

<210> 1
<211> 4159
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 440295.10

<220>
<221> unsure
<222> 3348, 3353, 3363-3384, 3845, 4116-4117, 4125, 4142, 4150, 4152
<223> a, t, c, g, or other

<400> 1
ccttgagac tagaaagaaa ctgctagatg gctgtaacac agttcatcca tttccgtgaa 60
gagatcatgg ggaatatggt cttcatcatc atcttcagta ccaaggataa actgtgttac 120
agagatggag aagaatatga atggaaagaa actgctagat ggctgaaatt tgaagaggat 180
gttgaagatg gcggtgaccg atggagtaaa ccttatgttg caactctctc tttgcacagt 240
ctttttgaac taaggagttg catcctcaat ggaacagtca tgctggatat gagagcaagc 300
actctagatg aaatagcaga tatggtatta gacaacatga tagcttcttg ccaattagac 360
gagtccatac gagagaatgt cagagaagct cttctgaaga gacatcatca tcagaatgag 420
aaaagattca ccagtcggat tcctcttggt cgatcttttg cagatatagg caagaaacat 480
tctgaccctc acttgcttga aagggaatggt attttggcct ctccccagtc tgctcctgga 540
aacttggaca atagtaaaag tggagaaatt aaaggtaatg gaagtgggtg aagcagagaa 600
aatagtactg ttgacttcag caagggtgat atgaatttca tgagaaaaat tcctacgggt 660
gctgaggcat ccaacgtcct ggtgggcgaa gtagactttt tggaaaggcc aataattgca 720
tttgtgagac tggctcctgc tgtcctcctt acagggttga ctgagggtccc tgttccaacc 780
agggttttgt ttttggtatt ggttccagcg ggcaaggcac cacagtacca tgaaattgga 840
cgatcaatag ccactctcat gacagatgag attttccatg atgtagctta taaagcaaaa 900
gacagaaatg acctcttacc tgggaattgat gaatttttag atcaagtaac tgtcctacct 960
ccaggagagt gggatccttc tatacgcata gaaccaccaa aaagtgtccc ttctcaggaa 1020
aagagaaaga ttctgtgttt tcacaatgga tctaccccca cactgggtga gactcctaaa 1080
gaggccgctc atcatgctgg gctgagcta cagaggactg gacggctttt tgggtggtttg 1140
atacttgaca tcaaaaggaa agcacctttt ttcttgagtg acttcaagga tgcattagc 1200
ctgcagtgc tggcctcgat tcttttcccta tactgtgcct gtatgtctcc tgtaatcact 1260
tttgaggggc tgcttggaga agctacagaa ggcagaataa gtgcaataga gtctcttttt 1320
ggagcatcat taactgggat tgcctattca ttgtttgctg ggcaacctct aacaatattg 1380
gggagcacag gtccagttct agtgtttgaa aaaattttat ataaattctg cagagattat 1440
caactttctt atctgtcttt aagaaccagt attggtctgt ggacttcttt tttgtgcatt 1500
gttttggttg caacagatgc aagcagcctt gtgtgttata ttactcgatt tacagaagag 1560
gcttttgtag cccttatttg catcatatcc atctacgagg ctttggagaa gctctttgat 1620
ttaggagaaa catatgcatt taatatgcac aacaacttag ataaactgac cagctactca 1680
tgtgtatgta ctgaacctcc aaacccagc aatgaaactc tagcacaatg gaagaaagat 1740

aatataacag	cacacaatat	ttcctggaga	aatcttactg	tttctgaatg	taaaaaactt	1800
cgtgggtgat	tcttgggggc	agcttgtggg	catcatggac	cttataatcc	agatgtgctc	1860
ttttgggtg	tcactctgtt	tttcacaaca	ttttttctgt	cttcattcct	caagcaattt	1920
aagaccaagc	gttacttttc	taccaagggt	cgatcgacaa	tcagtgattt	tgctgtattt	1980
ctcacaaatg	taataatggt	tacaattgac	taccttgtag	gagttccatc	tcctaaactt	2040
catgttctcg	aaaaatttga	gcctactcat	ccagagagag	gggtggatcat	aagcccactg	2100
ggagataatc	cttgggtggac	cttattaata	gctgctatcc	ctgctttgct	ttgtaccatt	2160
ctcatcttta	tggatcaaca	aatcacagct	gtaattataa	acagaaagga	acacaaattg	2220
aagaaaggag	ctggctatca	ccttgatttg	ctcatgggtg	gcgttatggt	gggagtttgc	2280
tctgtcatgg	gacttccatg	gtttgtggct	gcaacagtgt	tgtcaataag	tcattgtcaac	2340
agcttaaaag	ttgaatctga	atgttctgct	ccagggggaa	aacccaagtt	tttggaatt	2400
cgtgaacagc	gggttacagg	gctaattgatt	tttattctaa	tgggctctc	tgtgttcatt	2460
ttcacgaaga	taaaaggaat	ccagttatct	gacgtataaa	aattatttgg	aatgcctgct	2520
ggttccctcat	ctgatttgat	atacctccgt	tatgtgccgc	tctggaaggt	ccatattttc	2580
aagcatcagc	agcttacttg	tttggctcct	ttatgggtga	taaaagtctc	agctgctgca	2640
acagtcattc	ccatgatggt	tcttgcatta	gtgtttgtgc	gcaaactcat	ggacctgtgt	2700
gtggtttttc	ttggcttgat	ttggcttgat	gatcttatgc	cagaaagtaa	gaaaaagaaa	2760
gaagatgaca	aaaagaaaaa	agagaaagag	gaagctgaac	ggatgcttca	agacgatgat	2820
gatactgtgc	accttccatt	tgaaggggga	agtctcttgc	aaattccagt	caaggcccta	2880
aaatatagtg	gtgatccctc	aatttggtaac	atatcagatg	aaatggccaa	aactgcacag	2940
tggaaaggca	tttccatgaa	tactgagaat	gccaagtaa	ccagatctaa	catgagtcct	3000
gataaaacctg	tgagtgtgaa	ataagtttga	gatgaaccaa	gaaagaaata	cgtggatgct	3060
gaaacttcat	tatagaattg	aaccaagagg	cattatacat	atagatatat	acatatgtaa	3120
tgtgtgcgta	tcattggcact	atatataaga	atattgtatg	tcattgctgtt	tattgtgtgac	3180
taccgggttt	ttaaaagtag	tgtctggagt	ttgtaatgag	caccgtggag	actatgtatt	3240
taattgaaatg	ctctctttga	agtgggttac	atggttctaa	ctattcanat	atngattctg	3300
ttnnnnnnnn	nnnnnnnnnn	nnnnngcaata	gaaggatgtg	gagaaatgct	ttcagtcctac	3360
ttttcttaaa	tctctgttca	tcagtggtcaa	ttcgtaaaaa	cettaagtga	tactttgttt	3420
atatgtttat	aatttttagg	tgtttccctga	aattttcaca	tattatttca	cttttgttag	3480
tgctttatgg	gaagaatagg	gagtcctatac	cagtgtctgtg	ggaaaaatgg	taacatttca	3540
gggcttctct	atttgtgttt	catttctgtga	gatgtccatc	gtgtttcact	aactggcgtt	3600
ttcttagcca	tagagatgac	tgtagaacaa	tagaaacttt	aataatgata	gttttttaact	3660
tttatgttta	aatttttttt	aaatcttaaa	accttcatac	ctaggtatcc	attgtgacag	3720
acaagtaaaa	ttgcagggtg	tttgataaatt	aagcaccat	accatttata	acttctgaat	3780
ttanaaagtt	atacaatgcc	agtttgcaat	agttgatttt	ggatgccctt	gtagaatatt	3840
ttttctgaat	ccttatgctc	ttttaagacc	aatgattccc	actctgttct	ctgccttgct	3900
tctctttgtc	ttaaaatgct	ttagttttcca	tcagggttcaa	gttcttgact	attattctct	3960
tataagtagt	aggcgtaaat	aatcaggagt	tagaattctc	tcagaagggt	ctatgatcag	4020
tattacttta	ttagaattta	cctttcattt	tctctnnatg	ttatncttcc	acttgtgtag	4080
antacatttn	anagcttgt					4140
						4159

<210> 2

<211> 1399

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: g34387

<400> 2

agtgtgaaat	cttcagagaa	gaattttctc	ttagttcttt	gcaagaaggt	agagataaag	60
acactttttc	aaaaatggca	atgggtatcag	aattcctcaa	gcaggcctgg	tttattgaaa	120
atgaagagca	ggaatatggt	caaactgtga	agtcattcaa	aggtggtccc	ggatcagcgg	180
tgagccctta	tcctaccttc	aatccatcct	cggatgtcgc	tgccttgcat	aaggccataa	240
tgggttaaag	tgtggatgaa	gcaaccatca	ttgacattct	aactaagcga	aacaatgcac	300
agcgtaacaa	gcatatctcc	gcataatccc	aggaacacag	aaagcccctg	gatgaaacac	360
ttaagaaagc	ccttacagggt	caccttgagg	aggttggttt	agctctgcta	aaaactccag	420
cgcaatttga	tgctgatgaa	cttcgtgctg	ccatgaaggg	ccttggaact	gatgaagata	480
ctctaattga	gatttttgga	tcaagaacta	acaagaaaa	cagagacatt	aacagggtct	540
acagagagga	actgaagaga	gatctggcca	aagacataac	ctcagacaca	tctggagatt	600
ttcggaacgc	tttgctttct	ccttgctaagg	gtgaccgata	tgaggacttt	gggtgtgaatg	660
aagacttggc	tgattcagat	gccaggccct	tgtatgaagc	aggagaaagg	agaaagggga	720
cagacgtaaa	cgtgttcaat	accatcctta	ccaccagaag	ctatccacaa	cttcgcagag	780
tgtttcagaa	atacaccaag	tacagtaagc	atgacatgaa	caaagtctct	gacctggagt	840
tgaaagggtga	cattgagaaa	tgccctcacag	ctatcgtgaa	gtgcgccaca	agcaaaccag	900

ctttctttgc	agagaagcct	catcaagcca	tgaaggtgt	tggaactcgc	cataaggcat	960
tgatcaggat	tatggtttcc	cgttctgaaa	ttgacatgaa	tgatatcaaa	gcattctatc	1020
agaagatgta	tggtatctcc	ctttgccaa	ccatcctgga	tgaaccaaaa	ggagattatg	1080
agaaaaatcct	gggtgctctt	tgtggaggaa	actaaacatt	cccttgatgg	tctcaagcta	1140
tgatcagaag	actttaatta	tatatcttca	tcctataagc	ttaaatagga	aagtttcttc	1200
aacaggatta	cagtgtagct	acctacatgc	tgaaaaatat	agcctttaa	tcatttttat	1260
attataactc	tgtataatag	agataagtc	attttttaa	aatgtttcc	ccaaaccata	1320
aaaccctata	caagttgttc	tagtaacaat	acatgagaaa	gatgtctatg	tagctgaaaa	1380
taaaatgacg	tcacaagac					1399

<210> 3

<211> 3791

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 247178.2

<400> 3

gggtccagc	cctagtacc	tgtcccagc	cgagtccgg	cggtcccgtg	cggtccagtg	60
ccgccctct	ccgcgcgag	cccgccgag	ccgcgccgtc	cgcttgccac	catggagctg	120
gaggacggtg	tggtgtatca	ggaggagccc	ggcggtccg	gggccgtgat	gtcggagcgg	180
gtgtccggcc	tggtccggtc	catctaccgc	gagttcgagc	ggcttatcgg	gcgctatgac	240
gaggaggtgg	tcaaagagct	gatgccgctg	gtggtggctg	tgctggagaa	cctggactcg	300
gtgttcgcgc	aggaccagga	gcaccaggtg	gagctggagc	tgctgcggga	cgacaacgag	360
cagctcatca	cccagtacga	gcgggagaag	gcgctgcgca	agcacgctga	ggagaaaattc	420
attgaatttg	aagactctca	agaacaggaa	aaaaaggact	tacagacccg	agtggaaatct	480
ttagaatctc	aaacaagaca	acttgagctg	aaagcgaaaa	actatgctga	ccagattagc	540
agacttgaag	aaagagaagc	agaactgaag	aaggaatata	atgcattaca	tcaaagacac	600
actgagatga	tccataatta	tatggaacat	ttagaaagaa	caaaaacttca	tcagctctca	660
gggagtgtac	aactagaatc	cacagctcat	agtagaatta	gaaaagaacg	ccctatatca	720
ttaggaatth	tcccattacc	tgctggagat	ggattgctta	cacctgatac	tcagaaagga	780
ggagagaccc	ctggatctga	gcaatggaaa	tttcaggaat	taagtcaacc	acgttctcat	840
accagctgta	aggatgagct	ttctgatgtt	agccaaggcg	gatctaaagc	taccactcca	900
gcatcaacag	ctaattcaga	tgtggcaaca	atttctactg	atactccctt	aaaggaagaa	960
aacgaaggat	ttgtgaaggt	tacagatgcg	ccaaataaat	cagagataag	caaacacatt	1020
gaagtacagg	tagcccagga	aactagaaat	gtatctactg	gctctgctga	aaaggaagaa	1080
aagtcagaag	ttcaagcaat	catcgaaatc	actcctgagc	tggtatgtga	caaagatctc	1140
agtggatata	aaggttcaag	cactcccacc	aaaggcatag	agaacaaagc	ttttgatcgc	1200
aatacagaat	ctctctttga	agaactgtct	tcagctggct	caggcctaata	aggagatgtg	1260
gatgaaggag	cagattttact	aggaatgggt	cggaagttg	agaatcttat	attagaaaaat	1320
acacaactgt	tggaaccaca	aaatgctttg	aacatagtga	agaatgattt	gatagcaaaa	1380
gtggatgaac	tgacctgtga	gaaagatgtg	ctgcaagggg	aattggaggc	tgtgaagcaa	1440
gccaaactga	aactagagga	aaagaacaga	gaattggagg	aagagcttag	gaaagctcgg	1500
gcagaagctg	aagatgcaag	gcaaaaagca	aaagatgacg	atgatagtga	tattcccaca	1560
gcccagagga	aacggtttac	tagagttagaa	atggcccgtg	ttctcatgga	gcgaaaccag	1620
tataaagaga	gattgatgga	gcttcaggaa	gctgttcgat	ggacagagat	gattcgggca	1680
tcacgagaaa	atccagccat	gcaggaaaaa	aaaagggtcaa	gcatttggca	gtttttcagc	1740
cgacttttca	gctcctcaag	taacacgact	aagaagcctg	aaccacctgt	taatctgaag	1800
tacaatgcac	ccacgtctca	tgttactccg	tccgtcaaga	aaagaagcag	caccttatct	1860
cagctccctg	gggataagtc	caaagccttt	gatttccctt	gtgaagaaac	tgaagctagt	1920
ttagcctcac	gcagagaaca	aaagagagag	cagtatcgtc	aggtaaaagc	acatgtttcag	1980
aaggaagacg	gtagagtgtca	ggcttttggc	tggagtctgc	ctcagaagta	caaacaggta	2040
accaatgggtc	aaggtgaaaa	taagatgaaa	aatttacctg	tgctgtctta	tctcagacct	2100
ctggatgaaa	aagatacatc	aatgaagctg	tgggtgtgctg	ttggagtcaa	tttatctggt	2160
gggaagacca	gagatgggtg	ttctgtttgt	ggagcaagtg	tattttacaa	ggatgtttgct	2220
ggtttggata	cagaaggcag	taaacagcga	agtgcctctc	agagtgtttt	agataagtta	2280
gatcaggaac	ttaaggaaaca	gcagaaggag	ttaaaaaatc	aagaagaatt	atccagtcta	2340
gtttggatct	gtaccagcac	tcattcggct	acaaaagtcc	ttattattga	tgctgttcaa	2400
cctggcaaca	tcctagacag	tttcaactgt	tgcaactctc	atgttctgtg	cattgcaagt	2460
gtgccaggtg	cacgagaaac	agactaccct	gcaggagaag	atctttcaga	atctggtcag	2520
gtagacaaag	catctttatg	tggaagtatg	acaagcaaca	gctcagcaga	gcacagacgc	2580
ctgttaggag	gcatacacgt	ggttgggtgt	tctgcagaag	gtgtgacggg	agctgccact	2640
tcccctagta	caaatggtgc	ttctccagtg	atggataaac	caccagaaat	ggaagcagaa	2700
aatagtggag	ttgatgaaaa	tgttccaaca	gcagaagaag	caactgaagc	tacagaaggg	2760
aatgcggggg	cagctgaaga	cacagtggac	atctcccaaa	ctggcgtcta	cacagagcat	2820

```

gtctttacag atccttttggg agttcagatc ccagaagacc tctccccagt gtatcagtcg 2880
agcaatgact cagatgcata taaagatcaa atatcagtac tgccaaatga acaagacttg 2940
gtgagagaag aagcccagaa aatgagtagt cttttaccaa ctatgtggct tggagctcaa 3000
aatggctgtt tgtatgtcca ttcatctgta gccagtgga ggaaatgtct ccattccatt 3060
aaacttaaaag attcgattct cagtattgta cacgtgaagg gaatcgtgtt agtagccctg 3120
gctgacggca cccttgcaat ctttcacaga ggagtgatg ggcagtgga tttgtcaaac 3180
tatcacctct tagaccttgg acggcctcat cattccatcc gttgcatgac tgtggtacat 3240
gacaaagtct ggtgtggcta taggaacaaa atctatgtgg tgcagccaaa ggccatgaaa 3300
atagagaaat cttttgatgc acatcccagg aaggagagcc aagtgcgaca ctttcgtggg 3360
tggtgggatg cgtgtgggtc tgccattcgc ttggattcta cgctccgtct ctatcatgga 3420
cacacttacc aacatctaca ggatgtggac attgagcctt atgtaagcaa aatgttaggt 3480
actggaaaac tgggcttctc ttttgtgaga attacagctc ttatggtgtc ttgtaatcgt 3540
ttgtgggtgg ggacaggaaa ttgtgtcatt atctccatcc cattgacaga aacaaataaa 3600
acctcaggtg taccaggaaa tcgtccctgga agtgtaatcc gtgtatatgg tgatgaaaac 3660
agtataaaag tgactccagg gacatttata ccctattgtt caatggcaca tgcacagctt 3720
tgcttccatg ggcaccggga tgctgtgaaa ttctttgtgg cagtcccagg tcaagtcac 3780
agcccacaaa g                                     3791

```

<210> 4

<211> 1586

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 567938

<400> 4

```

gaattcctgc cactcttctt gcaacggccc aggagctcag agctccacat ctgaccttct 60
agtcattgacc aggaccaggg cagcactcct cctgttcaca gccttagcaa cttctctagg 120
tttcaacttg gacacagagg agctgacagc cttccgtgtg gacagcgctg gggtttggaga 180
cagcgtgggtc cagtatgcc aactcctgggt ggtggttggg gcccccaaaa agataacagc 240
tgccaaacaa acgggtggcc tctaccagtg tggctacagc actggtgcct gtgagcccat 300
cggcctgcag gtgccccggg aggcctgtgaa catgtccctg ggcctgtccc tggcgtctac 360
caccagccct tcccagctgc tggcctgcgg ccccaccgtg caccacgagt gcgggaggaa 420
cattctacct accggactct gtttctcctt gggccccacc cagctcacc agaggctccc 480
ggtgtccagg caggagtgc caagacagga gcaggacatt gtgttctga tcatggctc 540
aggcagcatc tcttcccga actttgccac gatgatgaac ttcgtgagag ctgtgataag 600
ccagttccag agaccagca cccagtttct cctgatgcag ttctccaaca aattccaaac 660
acacttcaat ttcgaggaat tcaggcgag ctcaaaccct ctcagcctgt tggcttctgt 720
tcaccagctg caagggttta catacagggc caccgccatc caaaatgtcg tgcaccgatt 780
gttccatgcc tcatatgggg ccgtagggga tgccgccaaa attctcattg tcatcactga 840
tggaagaaa gaaggcgaca gctgggatta taaggatgtc atccccatgg ctgatgcagc 900
aggcatcatc cgctatgcaa ttgggggttg attagctttt caaaacagaa attcttggaa 960
agaattaaat gacattgcat cgaagccctc ccagggaacac atattttaaag tggaggactt 1020
tgatgctctg aaagatatc aaaaccaact gaaggagaag atctttgcca ttgagggtac 1080
ggagaccaca agcagtagct ccttcgaatt ggagatggca caggagggtc tcagcgctgt 1140
gttcacacct gatggccccg ttctgggggc tgtggggagc ttcacctggt ctggagggtc 1200
cttctgttac ccccaataa tgagccctac cttcatcaac atgtctcagg agaattgtga 1260
catgaggggac tcttacctgg gttactccac cgagctggcc tcccgcgttg ggcaacattg 1320
ctggctggaa gggaggagcg cctctaggg agggacatgg ccccggtgcg gctgcagctc 1380
accagcccc aggggcagaa gagacccaac cacttctatt ttttgaggct atgaatatag 1440
tacctgaaaa aatgccaaga catgattatt ttttataaaa gcgtacttta aatgtttgtg 1500
ttaataaatt aaaacatgca caaaaagatg catctaccgc cttgggaaat atgtcaaagg 1560
tctaaaaata aaaaagcctt ctgtgg                                     1586

```

<210> 5

<211> 4879

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 351122.2

<220>

<221> unsure

<222> 2532-2583

<223> a, t, c, g, or other

<400> 5

cgccgcggga	ggcggacgag	atgcgagcgc	ggccgcggcc	cggccgcctc	tgggcgactg	60
tgctggcgct	gggggcgctg	gcgggcgttg	gcgtaggagg	gcccacatc	tgtaccacgc	120
gaggtgtgag	ctcctgccag	cagtgcctgg	ctgtgagccc	catgtgtgcc	tggtgctctg	180
atgaggccct	gcctctgggc	tcacctcgct	gtgacctgaa	ggagaatctg	ctgaaggata	240
actgtgcccc	agaatccatc	gagttcccag	tgagtgaggc	ccgagtacta	gaggacaggc	300
ccctcagcga	caagggctct	ggagacagct	cccaggtcac	tcaagtcagt	ccccagagga	360
ttgcactccg	gctccggcca	gatgattcga	agaatttctc	catccaagtg	cggcaggtgg	420
aggattaccc	tgtggacatc	tactacttga	tggacctgtc	ttactccatg	aaggatgatc	480
tgtggagcat	ccagaacctg	ggtaccaagc	tggccaccca	gatgcgaaag	ctcaccagta	540
acctgcggat	tggcttcggg	gcatttgtgg	acaagcctgt	gtcaccatac	atgtatatct	600
ccccaccaga	ggccctcgaa	aacccctgct	atgatatgaa	gaccacctgc	ttgcccatgt	660
ttggctacaa	acacgtgctg	acgctaactg	accaggtgac	cgccttcaat	gaggaagtga	720
agaagcagag	tggagacagg	aaccgagatg	cccagagggg	tggctttgat	gccatcatgc	780
aggctacagt	ctgtgatgaa	aagattgggt	ggaggaatga	tgcattccac	ttgctggtgt	840
ttaccactga	tgccaagact	catatagcat	tggacggaag	gctggcaggc	attgtccagc	900
ctaattgacgg	gcagtgtcat	gttggttagtg	acaatcatta	ctctgcctcc	actaccatgg	960
atttcccttc	tttggggctg	atgactgaga	agctatccca	gaaaaacatc	aatttgcctc	1020
ttgcagtgcg	tggaaatgta	gtcaatctct	atcagaacta	tagtgagctc	atcccaggga	1080
ccacagttgg	ggttctgtcc	atggattcca	gcaatgtcct	ccagctcatt	gttgatgctt	1140
atgggaaaaa	ccgttctaaa	gtagagctgg	aagtgctgta	cctccctgaa	gagttgtctc	1200
tatccttcaa	tgccacctgc	ctcaacaatg	aggtcatccc	tggcctcaag	tcttgcctgg	1260
gactccaagc	tggaacacag	gtgagcttca	gcattgaggc	caaggtgcga	ggctgtcccc	1320
aggagaagga	gaagtccttt	accataaagc	ccgtgggctt	caaggacagc	ctgatcgtcc	1380
aggtcacctt	tgattgtgac	tgtgcctgcc	aggcccaagc	tgaacctaat	agccatcgct	1440
gcaacaatgg	caatgggacc	tttgagtgtg	gggtatgcgg	ttgtgggcct	ggctggctgg	1500
gatccagtg	tgagtgctca	gaggaggact	atcgcccttc	ccagcaggac	gaatgcagcc	1560
cccagagggg	tcagcccgct	tgcagccagc	ggggcgagtg	cctctgtggt	caatgtgtct	1620
gccacagcag	tgactttggc	aagatcacgg	gcaagtactg	cgagtgtgac	gacttctcct	1680
gtgtccgcta	caagggggag	atgtgtctag	gccatggcca	gtgcagctgt	ggggactgcc	1740
tgtgtgactc	cgactggacc	ggctactact	gcaactgtac	cacgcgtact	gacacctgca	1800
tgtccagcaa	atgcagtgag	tgcagcggcc	gcggcaagtg	tgaatgtggc	agctgtgtct	1860
gtatccagcc	gggtctctat	ggggacacct	gtgagaagtg	ccccacctgc	ccagatgcct	1920
gcacctttaa	gaaagaatgt	gtggagtgtg	agaagtttga	cgggggagcc	ctacatgacc	1980
gaaaatacct	gcaaccgtta	ctgccgtgac	gagattgagt	cagtgaagaa	gcttaaggac	2040
actggcaagg	atgcagtgaa	ttgtacctat	aagaatgagg	atgactgtgt	cgctcagattc	2100
cagtactatg	aagattctag	tggaaagtcc	atcctgtatg	tggtagaaga	gccagagtgt	2160
cccaagggcc	ctgacatcct	ggtggtcctg	ctctcagtga	tgggggccat	tctgctcatt	2220
ggccttgccg	ccctgctcat	ctggaaactc	ctcatcacca	tccacgaccg	aaaagaattc	2280
gctaatttgg	aggaagaacg	cgccagagca	aaatgggaca	cagccaacaa	cccactgtat	2340
aaagaggcca	cgctcactct	caccaatata	acgtaccggg	gcacttaatg	ataagcagtc	2400
atcctcagat	cattatcagc	ctgtgccacg	attgcaggag	tccttgccat	catgtttaca	2460
gaggacagta	tttgtgggga	gggatttggg	gctcagagtg	gggtaggttg	ggagaatgtc	2520
agtatgtgga	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2580
nnntgtgtgt	gggagtgtgt	aattttaaata	tgtgatgtgt	cctgataagc	tgagctcctt	2640
agcctttgtc	ccagaatgcc	tcctgcaggg	attcttctct	cttagcttga	gggtgactat	2700
ggagctgagc	aggtgttctt	cattacctca	gtgagaagcc	agctttctct	atcaggccat	2760
tgtccctgaa	gagaagggca	gggctgaggc	ctctcatctc	agaggaaggg	acaccaagcc	2820
ttggctctac	cctgagttca	taaatttatg	gttctcaggc	ctgactctca	gcagctatgg	2880
taggaactgc	tgggcttggc	agcccggttc	atctgtacct	ctgcctcctt	tccctccctt	2940
caggccgaag	gaggagtccg	ggagagctga	actattagag	ctgcctgtgc	cttttgccat	3000
ccctcaacc	cagctatggt	tctctcgcaa	gggaagtctt	tgcaagctaa	ttctttgacc	3060
tgttgggagt	gaggatgtct	gggccactca	ggggtcatct	atggcctggg	ggatgtacca	3120
gcactcctca	gttcataatc	acaaccttct	agatttgcct	tattggcagc	tctactctgg	3180
aggtttgttt	agaagaagtg	tgtcacctct	aggccagcac	catctcttta	cctcctaatt	3240
ccacaccttc	actgctgtag	acatttgcta	tgagctgggg	atgtctctca	tgaccaaatt	3300
cttttctctc	aagggagaga	gtgctattgt	agagccagag	gtctggccct	atgcttccgg	3360
cctcctgtcc	ctcatccata	gcacctccac	atacctggcc	ctgagccttg	gtgtgctgta	3420
tccatccatg	gggctgattg	tatttacctt	ctacctcttg	gctgccttgt	gaaggaatta	3480
ttcccatgag	ttggctggga	ataagtgcga	ggatggaatg	atgggtcagt	tgtatcagca	3540
cgtgtggcct	gttcttctat	gggttggaca	acctcatttt	aactcagctc	ttaactctgag	3600
aggccacagt	gaacattttt	tttatttttc	tcatgatgag	gttttcttaa	cttaaaagaa	3660
catgtatata	aacatgtctg	cattatatatt	gtaaatttat	gtgatggcaa	agaaggagag	3720
cataggaaac	cacacagact	tgggcagggt	acagacactc	ccacttgcca	tcattcacag	3780

caagtcactg	gccagtggct	ggatctgtga	ggggtctct	catgatagaa	ggctatgggg	3840
atagatgtgt	ggacacattg	gacctttcct	gaggaagagg	gactgttctt	ttgtcccaga	3900
aaagcagtgg	ctccattggt	gttgacatac	atccaacatt	aaaagccacc	cccaaagtcc	3960
caagaaaaaa	agaaagactt	atcaacattt	gttccatgag	cagaaaactg	gagctctggc	4020
ctcagtgtta	cagctaaata	atctttaatt	aaggcaagtc	actttcttct	tcttaaagct	4080
gttttctagt	ttgagaaatg	atgggatttt	agcagccagt	cttgaaggtc	tctttcagta	4140
tcaacattct	aagatgcttg	gacttactgt	gtcatcaaat	gtgcggttaa	gattctcttg	4200
gatattgata	ctgtttgtgt	tttttagttg	gagatctgag	agacctgggt	ttggcaagag	4260
cagatgtcat	tccatatcac	ctttctcaat	gaaagtctca	ttctatcttc	tctccaaacc	4320
cgttttccaa	cattttgttaa	tagttacgtc	tctctgatg	tagcacttaa	gcttcattta	4380
gttattattt	ctttcttcac	tttgcacaca	tttgcatcca	catattaggg	aagaggaatc	4440
cataagtagc	tgaatatctc	attctgtatt	atttgtttaa	cattgagaat	aagccttggg	4500
attagatatg	gggcaatgac	tgagccctgt	ctcaccatg	gattactcct	tactgtaggg	4560
aatggcagta	tggtagaggg	ataaataggg	ggcggggagg	gatagtcatg	gatccaagaa	4620
gtccttagaa	atagtgccag	ggaacagggt	tggagctca	tgctgtaat	tataaccttc	4680
agctactaag	acagggtgtg	tggtccacgc	ctgtgattat	aatcttcagt	tactaagaca	4740
gagtcacatg	gagtggtta	gggacatttt	ctttagataa	gatgttttat	atgaagaac	4800
tgtatcaaa	ggggaagaaa	atgtatttaa	cagggtgaatc	aaatcaggaa	tcttgcctga	4860
gctactggaa	tgaagttca					4879

<210> 6

<211> 4249

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 481379.9

<400> 6

agggccccc	cctgtgaagg	gataggagcc	tgactgttgc	agctgcagtg	agtgccgggg	60
aagcagcagc	ggccaggatg	aatcccaggt	gctctggagc	tggatggtga	aggtcggcac	120
tcttcacct	cccagaccct	gcccgtctcg	gccccatgcc	cccaccagtc	agccccgggc	180
cacaggcagt	gagcaggcac	ctgggagccg	aggccctgtg	accaggccaa	ggagacgggc	240
gctccagggt	cccagccacc	tgccccccc	atggagctga	ggccctggtt	gctatgggtg	300
gtagcagcaa	caggaacctt	ggctctgcta	gcagctgatg	ctcaggggcca	gaaggctctc	360
accaacacgt	gggctgtgcg	catccctggg	aggcccagcg	gtggccaaca	gtgtggcacg	420
gaagcatggg	ttcctcaacc	tgggccagat	cttcggggac	tattaccact	tctggcatcg	480
aggagtgcag	aagcggctcc	tgctgcctca	ccgcccgcgg	cacagccggc	tgagagggga	540
gcctcaagta	cagtggtctg	aacagcaggt	ggcaaaagcga	cggactaaac	gggacgtgta	600
ccaggagccc	acagacccca	agtttctctc	gcagtggtac	ctgtctggtg	tcactcagcg	660
ggacctgaat	gtgaaggcgg	cctggggcgca	gggtacacac	gggcacggca	ttgtgtgtctc	720
cattctggac	gatggcatcg	agaagaacca	cccggacttg	gcaggcaatt	atgatcctgg	780
ggccaggttt	gatgtcaatg	accaggaccc	tgacccccag	cctcgggtaca	cacagatgta	840
tgacaacagg	cacggcacac	ggtgtgctgg	ggaagtggct	gcggtggcca	acaacgggtg	900
ctgtggtgta	ggtgtggcct	acaacgcccc	cattggaggg	gtgcgcagtc	tggatggcga	960
ggtgacagat	gcagtgaggg	cacgctcgct	gggcctgaac	cccaaccaca	tccacatcta	1020
cagtgcacag	tggggccccc	aggatgacgg	caagacagtg	gatgggccag	ccgcctctgc	1080
cgaggaggcc	ttcttcctgt	gggttagcca	gggcccaggg	gggctgggct	ccatctttgt	1140
ctgggcctcg	gggaacgggg	gccgggaaca	tgacagctgc	aactgcgacg	gctacaccaa	1200
cagtatctac	acgctgtcca	tcagcagcgc	cacgcagttt	ggcaacgtgc	cgtggtacag	1260
cgaggcctgc	tcgtccacac	tggccacgcac	ctacagcagt	ggcaaccaga	atgagaagca	1320
gatcgtgagc	actgacttgc	ggcagaagtg	cacggagtct	cacacgggca	cctcagcctc	1380
tgccccctta	gcagccggca	tcattgctct	caccctggag	gccaataaga	acctcacatg	1440
gcgggacatg	caacacctgg	tggtacagac	ctcgaagcca	gcccaccta	atgccaacga	1500
ctggggccac	aatgggtgtg	gccggaaagt	gagccactca	tatggctacg	ggcttttggg	1560
cgaggcgccc	atggtggccc	tgcccagaaa	ttggaccaca	gtggccccc	agcgggaagt	1620
catcatcgac	atcctcaccg	agcccaaaaga	catcgggaaa	cggctcgagg	tgcggaagac	1680
cgtagccgcg	tgccctggcg	agcccaacca	catcactcgg	ctggagcacg	ctcaggcgcg	1740
gctcaccctg	tcctataatc	gccgtggcga	cttgcccatc	cacctggtoa	gccccatggg	1800
caccgcctcc	accctgtctg	cagccaggcc	acatgactac	tcgcgagatg	ggttttaatga	1860
ctgggccttc	attcctggga	ttccttgaga	tgaggtatcc	tctggcgagt	gggtcctaga	1920
gattgaaaac	accagcgaag	ccaacaacta	tgggacgctg	accaagtcca	ccctcgta	1980
ctatggcacc	gcccctgagg	ggctgcccgt	acctccagaa	agcagtggtc	gcaagaccct	2040
cacgtccagt	caggcctgtg	tggtgtgcga	ggaaggcttc	tccttcgacc	agaagagctg	2100
tgccagcac	tgcctccag	cttcgctccc	caagtccttc	gatacgact	atagcaccga	2160
gaatgacgtg	gagaccatcc	gggcccagct	ctgcgcccc	tgccacgctc	catgtgccac	2220

atgccagggg	cgggccctga	cagactgect	cagctgcccc	agccacgcct	ccttggaccc	2280
tgtggagcag	acttgcctcc	ggcaaagcca	gagcagccga	gagtcgccgc	cacagcagca	2340
gccacctcgg	ctgcccccg	aggtggaggc	ggggcaacgg	ctgcgggcag	ggctgctgcc	2400
ctcacacctg	cctgaggtgg	tggccggcct	cagctgcgcc	ttcatcgtgc	tggctcttgc	2460
caactgtctt	ctggctctgc	agctgcgctc	tggctttagt	tttcgggggg	tgaaggtgta	2520
caccatggac	cgtggcctca	tctcctacaa	ggggctgccc	cctgaagcct	ggcaggagga	2580
gtgcccgct	gactcagaag	aggacgaggg	ccggggcgag	aggaccgcct	ttatcaaaga	2640
ccagacggcc	ctctgatgag	cccactgccc	acccctcaa	gccaatcccc	tccttgggca	2700
ctttttaatt	caccaaagta	tttttttatc	ttgggactgg	gtttgggacc	cagctgggag	2760
gcaagagggg	tggagactgt	ttccatcct	accctcgggc	ccacctggcc	acctgaggtg	2820
ggccacaggac	cagctggggc	gtggggaggg	ccgtacccca	ccctcagcac	cccttccatg	2880
tggagaaagg	agtgaacac	ttagggcagc	ttgccccggc	cccggcccca	gccagagttc	2940
ctgcggagtg	aagaggggca	gcccttgctt	gttgggattc	ctgaccagg	ccgcagctct	3000
tgcccttccc	tgtccctcta	aagcaataat	ggtcccatcc	aggcagtcgg	gggctggcct	3060
aggagatata	tgaggaggga	ggccacctct	ccaagggcct	ctgcaccctc	caccctgtcc	3120
ccagctcttg	gtgagtcttg	gcggcagcag	ccatcatagg	aagggaccaa	ggcaaggcag	3180
gtgctccag	gtgtgcctg	ggcatgtggc	ctgtggcctg	tgtcccatga	ccaccctctg	3240
tgtccgtgc	ctccaccacc	actggccacc	aggctggcgc	agccaaggcc	gaagctctgg	3300
ctgaacctg	tgtgtgtgtc	ctgaccacce	tccctctct	tgcaccggcc	tctcccgta	3360
gggccaagt	ccctgttttc	tgagcccggg	ctgcctgggc	tgttggcact	cacagacctg	3420
gagccctgg	gtgggtgggtg	gggagggggc	ctggcccagc	cgccctctct	ggcctccac	3480
ccgatgctgc	tttcccctgt	ggggatctca	ggggctgttt	gaggatata	tttcaactttg	3540
tgattatttc	acttttagatg	ctgatgattt	gtttttgtat	ttttaatggg	ggtagcagct	3600
ggactaccca	cgttctcaca	cccaccgtcc	gccctgctcc	tccttgggct	gccctggccc	3660
tgaggtgtgg	gggctgcagc	atgttgctga	ggagtggaga	atagttgagc	cccaagtcc	3720
gaagaggcgg	gccagccagg	cggtctcaag	gaaagggggg	ccagtggga	ggggcaggct	3780
gacatctgtg	tttcaagtgg	ggctcgccat	gccgggggtt	cataggtcac	tggctctcca	3840
agtgcagag	gtgggcaggt	ggtggcactg	agcccccca	acactgtgcc	ctggtggaga	3900
aagcactgac	ctgtcatgcc	cccccaaac	ctcctctct	gacgtgcctt	ttgcaccct	3960
ccattagga	caatcattcc	cctccatct	gggagtcgcc	tttcttttc	taccctagcc	4020
attcctggta	cccagccatc	tgcccagggg	tgccccctcc	tctccatcc	ccctgcctc	4080
gtggccagcc	cggctggttt	tgtaatatgc	tgggttggtg	cacagtgatt	ttttcttgt	4140
aatttaaa	ggcccagcat	tgctggttct	atttaatgga	catgagataa	tgttagaggt	4200
tttaaagtga	ttaaactgtc	agactatgca	aaccagaaaa	caaaaaaa		4249

<210> 7

<211> 2310

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 215391.7

<220>

<221> unsure

<222> 2015, 2192, 2203

<223> a, t, c, g, or other

<400> 7

gccgcaagtt	tctggagggg	gccgctgcgg	gtctttccct	cactcgtcct	ccgcgcgtcg	60
ccgctcttgc	gttctgctct	gtccgcgcgc	atggcccaag	ctgacatcgc	gctgatcgga	120
ttggccgtca	tgggccagaa	cttaattctg	aacatgaatg	accacggcct	tgtggtctgt	180
gcttttaata	ggactgtctc	caaagttagt	gatttcttgg	ccaatgaggc	aaagggaacc	240
aaagtgggtg	gtgcccagtc	cctgaaagag	atggctctcca	agctgaagaa	gccccggcgg	300
atcatctctc	tgggtgaaggc	tgggcaagct	gtggatgatt	tcacgagaa	attggtacca	360
ttgttggata	ctggtgacat	catcattgac	ggaggaaatt	ctgaatatag	ggacaccaca	420
agacggtgcc	gagacctcaa	ggccaaggga	attttatttg	tggggagcgg	agtcagtggg	480
ggagaggaag	gggcccggta	tggcccatcg	ctcatgccag	gagggaacaa	agaagcgtgg	540
ccccacatca	agaccatctt	ccaaggcatt	gctgcaaaag	tgggaactgg	agaaccttgg	600
ctgtgactgg	gtgggcagatg	agggagcagg	ccacttcgtg	aagatgggtg	acaacgggat	660
agagtatggg	gacatgcagc	tgatctgtga	ggcataccac	ctgatgaaag	acgtgctggg	720
gcatgggcgc	aggacgagat	gggcccaggg	cctttgagga	ttggaataag	acagagctag	780
actcattctc	gattgaaatc	acagccaata	ttctcaagtt	ccaagatacc	gatggcaaac	840
acctgctgcc	aaagatcagg	gacagcgccg	ggcagaaggg	cacagggaag	tggaccgcca	900
tctccgccct	ggaatacggc	gtaccctgca	ccctcattgg	agaagctgtc	tttgctcggg	960
gcttatcatc	tctgaaggat	gagagaattc	aagctagcaa	aaagctgaag	ggtccccaga	1020

```

agttccagtt  tgatggtgat  aagaaatcat  tcttggagga  cattcggaag  gcactctacg  1080
cttccaagat  catctcttac  gctcaaggct  ttatgtctgt  aaggcaggca  gccaccgagt  1140
ttggtggac   tctcaattat  ggtggcatcg  ccctgatgtg  gagagggggc  tgcattatta  1200
gaagtgtatt  cctaggaaag  ataaaggatg  catttgatcg  aaaccgggaa  cttcagaacc  1260
tcctactgga  cgacttcttt  aagtcagctg  ttgaaaactg  gccaggactc  ctggcggcgg  1320
gcagtacgca  ctgggggtcca  ggctggcatt  cccatgcctt  gttttaccac  tgccctctcc  1380
ttctatgacg  ggtacagaca  tgagatgctt  ccagccagcc  tcatccaggc  tcagcgggat  1440
tacttcgggg  ctcacaccta  tgaactcttg  gccaaaccag  ggcagtttat  ccacaccaac  1500
tggacaggcc  atggtggcac  cgtgtcatcc  tcgtcataca  atgcctgate  atgctgctcc  1560
tgtcacccct  cagcattcca  cagaccagga  cattccatgt  gcctcatggc  actgccacct  1620
ggccctttgc  cctattttct  gtccagtttt  ttaaaagtgt  tgtaagagac  tcctgaggaa  1680
gacacacagt  ttatttgtaa  agtagctctg  tgagagccac  catgccctct  gcccttgctt  1740
cttgggactg  accaggagct  gctcatgtgc  gtgagagtgg  gaaccatctc  cttgaggcag  1800
tggcttccgc  gtgccccgtg  tgctgggtgc  gttcccatca  cgcagacagg  aagggtgttt  1860
gcgcactctg  atcaactgga  acctctgtat  catggcgctg  aattcccttt  ttcctttact  1920
caataaaagc  tacatcagac  tgatgctctt  tctccagatt  cttagtctca  cctcggccac  1980
atggagccat  taccgccatt  ggcagaaaga  ttttncctta  aaaaaaaga  ctagaataac  2040
acaagaaacc  acatttagga  ttatgcttca  ctcagaggag  gcaggcaggg  aggacacacc  2100
aggggcttta  atacactggg  catgttttct  ttctccaatt  gggcaatggg  tacatggacg  2160
ttcactgtaa  cgtgcttttt  ctttcgtctt  tntttttttt  ttnttttttt  gctcctggca  2220
agctgtgcgt  gacattcttt  atggcttttt  gtatgtcaaa  tacttcatat  taaactttct  2280
agagaattaa  actttaatga  tgggaaccac  2310

```

<210> 8

<211> 1849

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 243812.1

<400> 8

```

ggcgctggg  agcccgcttg  gccgcgaacg  cagccgccac  gccggggccg  ccgagatcgg  60
gtgcccggga  tgagcctcat  ccggaaaaag  ggcttctaca  agcaggacgt  caacaagacc  120
gcctgggagc  tgcccaagac  ctacgtgtcc  ccgacgcacg  tcggcagcgg  ggcctatggc  180
tccgtgtgct  cggccatcga  caagcgggtc  ggggagaagg  tggccatcaa  gaagctgagc  240
cgaccctttc  agtccgagat  cttcgccaag  cgcgcctacc  gggagctgct  gctgctgaag  300
cacatgcagc  atgagaacgt  cattgggctc  ctggatgtct  tcacccacgc  ctccctcctg  360
cgcaacttct  atgacttcta  cctggtgatg  cccttcatgc  agacggatct  gcagaagatc  420
atggggatgg  agttcagtga  ggagaagatc  cagtacctgg  tgtatcagat  gctcaaaggc  480
cttaagtaca  tccactctgc  tggggctcgt  cacagggacc  tgaagccagg  caacctggct  540
gtgaatgagg  actgtgaact  gaagattctg  gattttgggc  tggcgcgaca  tgcaagcgc  600
gagatgactg  gctacgtggt  gaccgcctgg  tactcagccc  ccgaggtgat  cctcagctgg  660
atgcactaca  accagacagt  ggacatctgg  tctgtgggct  gtatcatggg  cagagatgct  720
gacagggaaa  actctgttca  aggggaaaga  ttacctggac  cagctgaccc  agatcctgaa  780
agtaccggg  gtgcctggca  cggagtttgt  gcagaagctg  aacgacaaag  cggccaaatc  840
ctacatccag  tccctgccac  agacccccag  gaaggatttc  actcagctgt  tcccacgggc  900
cagccccag  gctgcggacc  tgctggagaa  gatgctggag  ctacagctgg  acaagcgctt  960
gacggccgcg  caggccctca  cccatccctt  ctttgaacct  ttccgggacc  ctgagggaag  1020
gacggaggcc  cagcagccgt  ttgatgattc  cttagaacac  gagaaactca  cagtggatga  1080
atggaagcag  cacatctaca  aggagattgt  gaacttcagc  cccattgccc  ggaaggactc  1140
acggcgccgg  agtggcatga  agctgtaggg  actcatcttg  catggcaccg  ccggccagac  1200
actgccaaag  gaccagtatt  tgtcactacc  aaactcagcc  cttcttggaa  tacagccttt  1260
caagcagagg  acagaagggt  ccttctcctt  atgtgggaaa  tgggcctagt  agatgcagaa  1320
ttcaaagatg  tcggttgagg  gaaactagct  ctgactctaa  caggccacgt  taaactgccc  1380
atctggagaa  tcgctggcag  gtggggccct  ttcttccc  ccagagtggg  gctgagtggg  1440
cgctgagcca  ggccgggggc  ctatggcagt  gatgctgtgt  tggtttctta  gggatgctct  1500
aacgaattac  caacaaacct  ggtggattga  aacagcagaa  cttgattccc  ttacagttct  1560
ggaggctgga  aatctgggat  ggaggtgttg  gcaggcgtgt  ggtccctttg  aaggctctgg  1620
ggaagaatcc  ttccttggct  ctttttagct  gtggcgcca  cgtggcagtc  cgtggcattc  1680
cccagcttat  gctgcacac  tccagtctct  gtctctcttg  ttctctctc  ttttaacaac  1740
agtcattgga  tttaggggcc  accctaattc  tgtgtgatct  tatcttgatc  cttattaatt  1800
aaacctgcaa  atactctagt  tccaaataaa  gtccattctt  caggtaaaa  1849

```

<210> 9

<211> 1327

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1085755.1

<400> 9

gtgcggtg	tggtttat	aaagtggc	tcagaggc	gaccatgg	caggaacca	60
atagttgg	gctgtggg	tgaacagg	agggattt	aggtatca	aggtaaaag	120
aggtcagc	agcagcca	gcagcatt	ggccaggc	agcaggaa	gccaggctg	180
ccagggcc	gccccact	tggtgcag	atagaacc	gccacctc	cattggggt	240
gccctggg	gggtcga	acatctgg	gcagcgcc	ctccctcg	tgtagttg	300
gacctgtg	gagtgagt	agatttc	gcacaga	gtgggtgt	ggaagtag	360
atggaaag	tggcaggc	ctccactg	gcactgtt	aacctga	tccagttc	420
gcccttgt	cagttgtc	tgccaggt	ggaggtgc	caatcttc	accattgt	480
acagtcct	ttgcacag	gcacgttc	taccgc	ttgcgcc	tctgatcc	540
ctgctgg	caggcccc	agttgggg	gcactcgt	aggcaggt	cctggatg	600
atgccgtt	caggcagg	ccatctct	acagtgtt	cagttgat	tatatagg	660
ggaaacat	ttatgggt	cctggctg	gttgtaga	cagcaggc	tcttctcc	720
gggtcgac	tgctcatg	acttgtcc	ggggcctg	tttctctt	ggtgcttg	780
gttcacgc	acattgag	gctcagtc	ggcccatg	atccttgt	gagcctcc	840
tactacag	accacact	gaaggagc	cagctgtt	gtcatccg	gagccatg	900
tgtccctg	gggccacg	ggagaaat	gtactctc	ggaatacc	gtgatcct	960
gggttcag	cctcgccg	ccctaact	tagagcac	ggttcccg	caacctgt	1020
cgacccag	cctcactc	ccttctct	ggccttgg	gaaagaga	caaactat	1080
tgaggctt	agttctct	caaggatta	atgtaaga	ggggaaat	acaaatga	1140
gccagttt	atcatttc	atcatttc	cacagatg	gccatgcc	aagtcaca	1200
gtagggac	cccaagtt	ggccagag	cttttggc	ttgcccc	caccttc	1260
gtgctgag	ctctatgg	gcggcca	cacagtgc	gagatggg	ctgagaaa	1320
ctttcc						1327

<210> 10

<211> 6568

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 347809.3

<220>

<221> unsure

<222> 2367-2399

<223> a, t, c, g, or other

<400> 10

tgtgtttg	gaaagacg	gctaggcc	gggtacag	tgaagtgt	caccagag	60
acaaacct	gggctctg	tgcttctt	cagcaggt	ccgggga	gacctgcc	120
ttctgtgg	tgcaagt	cacagcct	atcttgag	ccctgg	tgaaggg	180
tgaatgac	ctgatgt	tgtaaa	ttggacag	agggatg	ggcccc	240
cacaggcc	ggcagg	agccgg	tggtagga	agcagag	gtgtctga	300
catacagg	gtccctc	agctgcag	tgcttctt	ttgtcccc	aacaaag	360
ggagatgg	accaagg	agctgcag	tctgaa	ttccaca	acatcct	420
gccctacca	gggaag	caggcac	gcctgagg	gaggctg	gaaaacct	480
gcagagg	aagtgg	gcaagat	ctttgtg	tctgtgg	gcggctt	540
gggcttgg	aacgtct	gcttccc	cctctg	aagaatg	gaggtgc	600
tctcatcc	tattttat	tctgtttg	gagcgctg	cctgtgtt	tcttgga	660
catcatag	cagtacac	ctgaag	catcac	tggaaga	tctgccc	720
gttctctg	atcggtat	cctccgtt	aattgtg	ctcctga	tctactac	780
cgtcatc	gcctggg	catactac	gttccagt	ttccaga	agctgc	840
ggcacact	gaaccac	gcactgc	gaggaca	tgcgcaa	gaggtt	900
caagagt	tggtac	tcagctc	caactc	ttccctg	togagtt	960
ggagcg	gtgctga	tgtccc	aatcgac	ccaggct	tgaaatg	1020
cctgc	tgcttct	tagtctg	agtgtgt	ttctg	ggaaggg	1080
caggtcca	gggaagg	tctacttc	agccact	ccattcg	tgctcct	1140
gctgctg	cgagggt	cgctgcc	cgcggcg	ggcatca	tctatct	1200

tcctgacatc	acccgccttg	aggaccacaca	ggtgtggatt	gacgctggga	ctcagatatt	1260
cttctcttat	gccatctgcc	tgggggctat	gacctcgctg	gggagctaca	acaagtacaa	1320
gtataactcg	tacagggact	gtatgctgct	gggatgcctg	aacagtggta	ccagttttgt	1380
gtctggcttc	gcaatTTTTT	ccatcctggg	cttcatggca	caagagcaag	gggtggacat	1440
tgtgtatgtg	gctgagtcag	gtcctggcct	ggccttcatt	gcctacccaa	aagctgtgac	1500
aatgatgccg	ctgcccacat	tttgggtccat	tctttttttt	attatgcttc	tcttgcttgg	1560
actggatagc	cagtttgttg	aagtgaaggg	acagatcaca	tccttggttg	atctttacc	1620
atccttcccta	aggaaggggt	atcgtcgggg	aatcttcatc	gccttcgtgt	gtagcatcag	1680
ctacctgctg	gggctgacga	tgggtgacgga	gggtggcatg	tatgtgtttc	agctctttga	1740
ctactatgca	gctagcgggtg	tatgcctttt	gtgggttgca	ttctttgaat	gttttgttat	1800
tgcctggata	tatggagggtg	ataaccttta	tgatgggtatt	gaggacatga	ttggctatcg	1860
gccccggccc	tggatgaagt	acagctgggc	tgtgatcact	ccagttctct	gtgttggatg	1920
tttcatcttc	tcgctcgctca	agtaactacc	cctgacctac	aacaaaacat	acgtgtcccc	1980
aacttggggc	attgggctgg	gctggagcct	ggccctttcc	tccatgctct	gcgttccctt	2040
ggatcatcgtc	atccgcctct	gccagactga	ggggccgttc	cttgtgagag	tcaagtacct	2100
gctgacccca	agggaaaccca	accgctgggc	tgtggagcgc	gagggagcca	caccttacia	2160
ctctcgacc	gtcatgaacg	gcgctctcgt	gaaccgacc	cacatcattg	tggagacct	2220
gatgtgagct	ctctcggttc	gacggggcgc	gcgcttttcc	tgctgtttac	taacattaga	2280
ttcacatagg	accaggttta	cagagcttta	tatttgcact	aggatttttt	tttttttgta	2340
attgtcacag	aaaatgtaat	tgtgggnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnc	2400
gtgtgtgtgt	gttttgtttt	gatttggggg	atatatttga	caaaaagaaa	acccacggga	2460
agatgtccgt	ggagaggcag	agctttcata	tgtaatttat	tgtaatttat	gggaatttgg	2520
tacatttctc	tagtgtattt	attttattac	atataagtat	atatacactt	agagattgtc	2580
atatactttt	accacttgaa	ttgatcttct	tgcagcaaat	agatctcatt	ttcaaaagca	2640
attcttcggg	gctgtgtagc	tggcagaaag	ttctgtccag	taaagcgagg	atggaatttt	2700
cttgggactc	tacaccatc	ttaagggtgtg	aatcctgggt	cagatggaag	2760	
aaatagcagg	agagaggacc	cattagctgg	cagaccagg	gggaagaaag	gagggctgtg	2820
aggagatacc	tcatataact	tggcttagtg	aagaagagag	atgccaaagg	aatgaaccaa	2880
cccttcacat	aaaggagact	ggctgaagct	gaatgaggag	gccctatagc	agaagtctga	2940
ttctaagagc	agtagaaact	tgtaccagaa	gcaaaatccc	acttttaatt	ttgagatggg	3000
gagtggatag	tcagtagacc	gtcagaacca	ctggccagag	agggagctgc	tagagatcca	3060
agaaggctgg	caggaatgag	gctcacaact	cagcctcgca	agagggtggca	gaggcacagg	3120
aggccacagt	ccttcctggg	gcattccagg	cagagaagga	gcagaggctc	tcccggcagg	3180
agctgggggtc	tcagggtcca	gatgagctcg	ttgcatttga	atggggctcat	agcaggttct	3240
ggctattccc	caagcaacct	ctcagcatct	cttaaagttg	cctgcaggaa	tgaagcatga	3300
catacctgtt	gagggactag	gggagtgggtg	gggaggtgag	tggaccaaag	gatataggcc	3360
ccaggcatgc	agatggggcc	gggtgtcgggg	aggggtgctt	tctttcctca	tctccccac	3420
tccccactct	cagcctggga	gactcctgcc	aagccctcat	taaagatgcc	accctgggct	3480
gccctggcac	ctagcaaggc	acaccaagaa	cagcttttga	gtcgtatcct	ccactgggga	3540
agtgctccca	gttcagaaca	agggcagccc	gtggtgctga	cctaggatat	aacaaagctc	3600
ttcacttcaa	aacccttgca	atagctgggt	ttacagacat	ttaccacctg	cggaccctaa	3660
agagaaggcc	taggagagtt	ttctagaagg	ttgggattgt	cagggtcctg	gcccctcaga	3720
actggcttga	tcaaggccct	tatgtggagc	agaggttgtc	tctgaaccag	gagagaaggt	3780
actatacctt	tcaaatcccc	agggcagaca	cacccccacc	cagcccttat	ttggacctaa	3840
actgtgccat	ttgaacagtc	acttccaagc	tcagtctaaa	tgaaccgaa	acgtgaccac	3900
gcacaaaggc	agtcactgcc	tcgaggggtg	cagaccgcag	aattttcaca	gcaggggctc	3960
ttggaactct	ggaaaccccc	ttcttaaat	tgggaggagg	agtatgcctt	tgggtgtccc	4020
ctcccaaggc	gcaattctga	acccatctt	tggcaggcat	acataattca	ctgtttccaa	4080
agctatctac	tctgccaac	aacaccagct	cctattccaa	actctcaaca	attctatctt	4140
gttctgtgtt	ttctatgtat	ttatggttgc	cgtttgtgtc	tgatttgatt	ttactgtttt	4200
ttccttgatt	ttatggagta	gcattgtgac	ctgttttcc	ttgtcttata	taactttagt	4260
aaactaacca	ctgtcaatga	ttgagggcag	gtggcacgtg	gggaagaggg	gacttggcac	4320
gcagtgggcta	cctgggcatt	tgtggtcatt	tcagtttcca	tctcccagc	gggggctccc	4380
tgggtgaaag	gccacagtat	tttgggttgg	taggcaaat	gcaacattct	ggacatggcc	4440
tgaggaaaggc	ctcttcttat	aagattctca	gaccaaatcc	tagaccaaag	acacaggcag	4500
accaagtccc	caggccccgc	ctggaaggaa	gtcgttccct	aactctcccc	aaggcacctg	4560
tctccaatca	gagccctctc	gcccagccag	cctggctct	gtgtgcagag	catagctctg	4620
cgagtacctg	tgtaataatg	ctcaaccttc	atgtctccgt	ataaacgaaa	ctttccatga	4680
gagctcatga	ctctgggtcca	cctgtctata	gagaatgggc	aaagtccttc	acctgtcttc	4740
tgtttgggat	gggtcagaaa	tgtgtatgcc	cgcacatagg	cccagccagc	cagatctgga	4800
aaggaagcga	gggggttgtt	taaatcaatt	ttttaagatg	aagaagtggg	agacactgcg	4860
ttgagatgga	ccatgctagg	gccacagaga	tttctcgacg	gtcagggaga	gaaggccctc	4920
cagggtcccc	taaccacaag	cccttgttgt	aaatgaggta	actgaggctc	agggaggcac	4980
tgtgagccag	gaatggattt	tcttgaaaca	gctctagctg	caggttctcc	gaggttaggtg	5040
cagggaatgg	tgagtgtcta	accagggcta	catccagcaa	cactctcaag	gtcttctctga	5100
caaccaaaaga	caagccttta	tggaaaagga	aatgcgctcc	cctccatgtt	cagggatgag	5160
gggagcagca	gcagccacac	tcccaccatc	ctcacagaat	tcctggaccc	atgcggtggc	5220

tccgtgagct	gggtgactcc	agcctcacct	gcacacccca	gccctgcacg	gggccctcct	5280
tcctcccagc	agcccttggt	gagctaggaa	ttgagatccc	tgtttgtgaa	agagggaact	5340
gaggtgcaga	gaagccagag	gtgtgccaga	tccttaggca	ggatttagat	gaagtcgccc	5400
tggtccaga	ctgacccga	ggctctgagg	ggagtttcca	ggcagcagga	agtggccttg	5460
gatgtctctc	ttccaggaca	gcataacccc	tggggccatgt	gcagctcctt	cactgcccc	5520
tggatcccca	gcataccccc	aaagacagtg	gggaaacaca	aggggagagc	acagcatggc	5580
ccctccagcc	cacttcaggg	cactcttgta	tcacccgggt	accgccacac	tggtccccc	5640
cccagccagc	atctcccagc	acagccccctc	tccttgggga	aatgctctgg	gtagccagtc	5700
taaaggcaga	ggcacctaac	tgctccccgc	agcccacccc	acccaagatt	cagacacaag	5760
ccaggaaagg	acccaagaga	aaatccttca	aggtggcctg	aggtcccatc	cctccctcag	5820
acccatgtgg	tcccaggcca	ggctgcctgg	gacacggtaa	ataccactgt	gtgcaaaaat	5880
cgaagtacaa	aaccacaaga	ctaaacaaaa	caaaccacaga	gagccaaact	tgtagagggtg	5940
ggcagtcag	aaagcagggg	gcagccctcc	cccttccctt	ctctccctga	tcctcagaat	6000
atatattgtt	gtaataggaa	gcattttttgc	attgtttctct	tggtgggtgtc	actacagaca	6060
tgttctggcg	tgttctccga	gggatggagc	atcctgttat	atatttgact	tcaaattgag	6120
atgttggctt	cattttttttt	ttttacccaa	ttaatctccc	aatccctagc	aactgtgact	6180
ctgtatttag	cacaagagaa	agctgagaat	gtgggtcttg	cctccttcca	gaaatatgtc	6240
tggtcatca	ggacattttt	ttaaaacttc	aaaatatattt	taagatatatt	taaaactttta	6300
taaaaaaaaa	atcaaccaac	aagagacttt	tctgaggagg	aacatttgta	tttgaacaag	6360
atccttggtg	tgtagttcag	tcttgagta	tacaagcttt	tggtatataaa	tgttttatga	6420
tatgattccc	tggtttttgc	aggggttttt	ttctcttttg	ctttttagat	aaatatgtat	6480
atcaatattt	taaattcatc	tttgcttttt	ttagaggagt	ttgtaatcac	cttataacat	6540
gaaaataaac	atttcctttt	taacatcc				6568

<210> 11
 <211> 611
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 331734.4

<400> 11						
gacagcagca	ggccccggggc	aggtctgcag	catcacaaact	gctaggctgc	ccaacactct	60
ccatcttagc	tcagaaggga	ctcccactgg	aagctcttgt	cccaggaact	taccaggt	120
ccaggacagc	ctggcctggc	tcccagacca	ctgctgtgct	tctctctcgg	cagatcggtg	180
ggggcaggaa	catggaccac	cacatcctgc	atgtggctgt	ggatgtcatc	agggagtctc	240
gggagatgog	gctgcagccc	ttcaatgagt	accgcaagag	gtttggcatg	aaaccctaca	300
cctccttcca	ggagctcgta	ggagagaagg	agatggcagc	agagtggag	gaattgtatg	360
gagacattga	tgcgttggag	ttctaccctg	gactgcttct	tgaaaagtgc	catccaaact	420
ctatctttgg	ggagagtatg	atagagattg	gggctocctt	ttccctcaag	ggtctcctag	480
ggaatcccat	ctgttctccg	gagtactgga	agccgagcac	atttggcggc	gaggtgggct	540
ttaacattgt	caagacggcc	acactgaaga	agctggctctg	cctcaacacc	aagacctgtc	600
cctacgtttc	c					611

<210> 12
 <211> 1283
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 116840.38

<220>
 <221> unsure
 <222> 1273
 <223> a, t, c, g, or other

<400> 12						
ggcgggggcta	gccggatccg	ctgactgatg	gtggggcgca	agcagggttg	gagctgcag	60
cttacgggaa	taaaaccggg	aaagccggcc	tgggcccagg	ccactgggtg	atatgttccc	120
gggagggata	agccagacct	gccaacctgg	aagagggaatt	tccgctctgc	cctcaaccgc	180
aaagaagggg	tgcgtttagc	agaggaccgg	agcaaggacc	ctcacgaccc	acataaaatc	240
tacgagtttg	tgaactcagg	agttggggac	ttttcccagc	cagacacctc	tccggacacc	300
aatggtggag	gcagtacttc	tgatacccag	gaagacattc	tggtatgagtt	actgggtaac	360

```

atggtgttgg cccactccc agatccggga cccccaagcc tggctgtage cctgagccc 420
tgccctcagc ccctgcggag ccccagcttg gacaatccca ctcccttccc aaacctgggg 480
ccctctgaga acccaggtaa ggcgctgttg gtgccggggg aagagtggga gttcgaggtg 540
acagccttct accggggcgc ccaagtcttc cagcagacca tctcctgccc ggagggcctg 600
cggctggttg ggtccgaagt gggagacagg acgctgcctg gatggccagt cacactgcca 660
gaccttgcca tgtccctgac agacagggga gtgatgagct acgtgaggca tgtgctgagc 720
tgcttgggtg ggggactggc tctctggcgg gccgggcagt ggctctgggc ccagcggctg 780
gggcaactgc acacatactg ggcagtgagc gaggagctgc tcccaacag cgggcatggg 840
cctgatggcg aggtcccaa ggacaaggaa ggaggcgtgt ttgacctggg gcccttcatt 900
gtaggctcct gggcccccag atctgattac ctacacggaa ggaagcggac gctcaccacg 960
ctatgccttc tggttctgtg tgggggagtc atggcccccag gaccagccgt ggaccaagag 1020
gctcgtgatg gtcaaggttg tgcccacgtg cctcagggcc ttggtagaaa tggccccggg 1080
agggggtgcc tctcctcgg agaatactgt ggacctgcac atttccaaca gccaccact 1140
ctccctcacc tccgaccagt acaaggccta cctgcaggac ttggtggagg gcatggattt 1200
ccagggccct ggggagagct gaggcctcgc tctcatggt gtgcctcaa cccctgttt 1260
cccaacaact canccaataa act
1283

```

<210> 13
 <211> 4361
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 903565.11

```

<400> 13
cgcgccgggtg ttggcggcgg cgggtggcgcc ggccggcggcg cttccccggc gcgagagcggc 60
tttaaaaggg ggcactccac ccccggcgcc actcgcagct cgggcgcgcg gcgagccgtgt 120
cgccgctatg cctccgcgcg cgccgcctgc gcccgggccc cggccgcgcg cccggggcgc 180
cgccgcccacc gacaccgcgc cgggcgcggg ggccgcgggg gcgcccggcg 240
gcccgggttc cggccgctcg cgccgcgtcc ctggcgctgg ctgctgctgc tggcgctgcc 300
tgccgcctgc tccgcgcccc cgccgcgcgc cgtctacacc aaccttggg cgggtgcaagt 360
gtggggcgcc cggcccgagg cggaccgcgt ggccggcggc caccgtacc tcaacttggg 420
ccagattgga aacctggaag attactacca tttttatcac agcaaaacct ttaaaagatc 480
aaccttgagt agcagagccc ctacacacct cctcagaatg gacccccagg tgaataggct 540
ccagcaacag gaagtgaac gaaggggtgaa gagacagggt cgaagtgacc cgcaggccct 600
ttacttcaac gacccattt ggtccaacat gtggtacctg cattgtggcg acaagaacag 660
tcgctgcgcg tcggaatga atgtccagcg agcgtggaag aggggctaca caggaaaaaa 720
cgtggtggcg accatccttg atgatggcat agagagaaat caccctgacc tggccccaaa 780
ttatgattcc tacgccagct acgacgtgaa cggcaatgat tatgaccat ctccacgata 840
tgatgccagc aatgaaaata aacacggcac tctgtgtgcg ggagaagttg ctgcttcagc 900
aaacaattcc tactgcatcg tgggcatagc gtacaatgcc aaaataggag gcatccgcat 960
gtgggacggc gactggaag atgtggtcga ggcaaaagtc ctgggcatca gacccaacta 1020
catcgacatt tacagtgccg gctgggggccc ggacgacgac ggcaagacgg tggacggggc 1080
cgcccgactg gctaagcagg ctttcgagta tggcattaaa aaggcccgcc agggcctggg 1140
tccattttc gtctgggcat ctgggaatgg cgggagagag ggggactact gctcgtgcca 1200
tggtacacc acacagatct cgtcagcagc gccaccgaga atggctaaa 1260
gcccgtgtac ctggaagagt gtgcctccac cctggccacc ctgggggcct 1320
ttatgagcga aaaatcgtca ccacggatct gcgtcagcgc tgtaccgatg gccacactgg 1380
gacctcagtc tctgccccca tgggtggcggg catcatcgcc ttggctctag aagcaaacag 1440
ccagttaacc tggagggacg tccagcacct gctagtgaag acatcccggc cggcccacct 1500
gaaagcgagc gactggaag tgaacggcgc ggttcataaa gttagccatt tctatggatt 1560
tggtttgggtg gacgcagaag ctctcgttgt ggaggcaaa aagtggacag cagtgccatc 1620
gcagcacatg tgtgtggcgg cctcggacaa gagaccagg agcatccct tagtgagggt 1680
gctgcggact acggccctga ccagcgccgt cgcggagcac tggaccagc ggggtggtcta 1740
cttgagcac gtggtgttcc gcacctccat ctcacacca cgccgaggag acctccagat 1800
ctacctggtt tctccctcgg gaaccaagtc tcaacttctg tgctggatct 1860
ttccaatgaa gggtttacia actgggaatt catgactgtc cactgctggg gagaaaaggc 1920
tgaagggcag tggaccttgg aaatccaaga tctgccatcc caggtccgca acccgagaa 1980
gcaaggggag ttgaaagaat ggagcctcat actgtatggc acagcagagc acccgtacca 2040
caccttcagt ccccatcagt cccgtcggg gatgctggag ctctcagccc cagagctgga 2100
gccaccaag gctgcctgt caccctccca cctgaagatg aggaagatta 2160
cacagctcaa tccaccccag gctctgctaa tattttacag accagtgtgt gccatccgga 2220
gtgtggtgac aaaggctgtg atggccccc aatgcagaccag tgcttgaact gcgtccactt 2280
cagcctgggg agtgtcaaga cagcaggaa gtgcgtgagt gtgtgccct tgggctactt 2340
tggggacaca gcagcaagac gctgtcgccg gtgccacaag ggggttgaga cctgctccag 2400

```

```
cagagctgcg acgcagtgcc tgtcttgcgg cgcgggggttc tatcaccacc aggagatgaa 2460
cacctgtgtg accctctgtc ctgcaggatt ttatgctgat gaaagtcaga aaaattgcct 2520
taaatgccac ccaagtgtga aaaagtgcgt ggatgaacct gagaaatgta ctgtctgtaa 2580
agaaggattc agccttgcac ggggcagctg cattcctgac tgtgagccag gcacctactt 2640
tgactcagag ctgatcagat gtgggggaatg ccatcacacc tgcggaacct gcgtggggcc 2700
aggcagagaa gagtgcattc actgtgcgaa aaacttccac ttccacgact ggaagtgtgt 2760
gccagcctgt ggtgagggct tctaccaga agagatgccg ggcttgcccc acaaagtgtg 2820
tcgaagggtg gacgagaact gcttgagctg tgcaggctcc agcaggaact gtagcagggt 2880
taagacgggc ttacacagc tggggacctc ctgcatcacc aaccacagct gcagcaacgc 2940
tgacgagaca ttctgcgaga tgggtgaagtc caaccggctg tgcgaacgga agctcttcat 3000
tcagtctctg tgccgcacgt gcctcctggc cgggtaaggg tgcctagctg cccacagagg 3060
gcaggcactc ccatccatcc atccgtccac ctctctccag actgtcggcc agagtctgtt 3120
tcagagcgcg cgccctgcac ctgacagctt tatctcccca ggagcagcat ctctgagcac 3180
ccaagccagg tgggtggtgg ctcttaagga ggtgttccca aaatggtgat atcctctcaa 3240
atgtgtcttg ttggctccag tcttccgaca aactaacagg aacaaaatga attctgggaa 3300
tccacagctc tggctttgga gcagcttctg ggaccataag tttactgaat cttcaagacc 3360
aaagcagaaa agaaaggcg ttggcatcac acatcactct tctcccgtg ctttcttgcg 3420
gctgtgtagt aaatctcccc ggcccagctg gcgaaccctg ggccatcctc acatgtgaca 3480
aaggccagc agtctactct ctggttgcc gccactgagc agtctgggga cggtttgggtc 3540
agactataaa taagataggt ttgagggcat aaaatgtatg accactgggg ccggagtatc 3600
tatttctaca tagtcagcta ctctgaaac tgcagcagtg gcttagaaag tccaattcca 3660
aagccagacc agaagattct atccccgca tgcgtctcct ttgagcaagc cgagctctcc 3720
ttgttaccgt gttctgtctg tgtcttcagg agtctcatgg cctgaacgac cacctcgacc 3780
tgatgcagag ccttctgagg agaggcaaca ggaggcattc tgtggccagc caaaaggtag 3840
ccgatggcc aagcaattcc tctgaacaaa atgtaaagcc agccatgcat tgttaatcat 3900
ccatcacttc ccattttatg gaattgcttt taaataacat ttggcctctg cccttcagaa 3960
gactcgtttt taaggtggaa actcctgtgt ctgtgtatat tacaagccta catgacacag 4020
ttggatttat tctgcaaac ctgtgtaggc attttataag ctacatgttc taatttttac 4080
cgatgttaat tattttgaca aatatttcat atattttcat tgaaatgcac agatctgctt 4140
gatcaattcc cttgaatagg gaagtaacat ttgccttaaa tttttctgac ctctcttttc 4200
tccatattgt cctgctcccc tgtttgacga cagtgcatth gccttgtcac ctgtgagctg 4260
gagagaaccc agatgttgtt tattgaatct acaactctga aagagaaatc aatgaagcaa 4320
gtacaatgtt aaccctaaat taataaaaga gttaacatcc c 4361
```

<210> 14
<211> 3132
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 903565.8

<220>
<221> unsure
<222> 2887-2906, 2986-3010
<223> a, t, c, g, or other

```
<400> 14
ttttaaccc aaaacatggt ttctctgatt atcgacagtg caaaggatgc atgctgagcg 60
cgacatgggc agggacgtcc cgcgtagtc accaatgggg tgtgagcacc ttgctattct 120
gcttcccac ttatcccgt gctgcacgt gtctgccac agcaggggacc caacaaatat 180
gcatccagtg aacaaaggga cgaaggcccc tcagcagctc tgtaaatggg ctctgttcca 240
cagtgggggtg atgcaacatg ccttccccgg cccctgggga agatgctgac agactctgcc 300
ctccaggcac tcttttctg gacacagttg cctgcccgtt cccgccagga ggaccgtacc 360
ttcgacacac tttgtggggc aagcccggca tctcttctgg gtagaagccc tcaccacagg 420
ctggcacaca ctccagtcg tgggaagtgg agtttttctg acagtgaatg cactcttctc 480
tgcttgcccc cagcaggtt ccgcaggtgt gatggcattc cccacatctg atcagctctg 540
agtcaaagta ggtgcttggc tcacagtcag gaatgcagct gcccctgtga aggctgaatc 600
ctcttttaca gacagtacat ttctcaggt catccacgca ctttttacag cttgggtggc 660
atttaaggca attttctga ctttcatcag cataaaatcc tgcaggacag agggtcacac 720
aggtgttcat ctctggtgg tgatagaacc cggggcgga agacaggcac tgcgtcgacg 780
ctctgctgga gcaggtctca cacccttctg ggcaccggcg acagcgtctt gctgctgtgt 840
ccccaaagta gcccagggg cacacactca cgcacttctt gctggtcttg acactcccca 900
ggctgaagtg gacgagttc aagcactgg ctgcattgg gccatcacag cctttgtcac 960
cacactccgg atggcacaca ctggtctgta aaatattagc agagcctggg gtggattgag 1020
ctgtgtaatc ttctctatct tcaggaactt ccacctggga gggtagacag gcagccttgg 1080
```

```
gtggctccag ctctggggct gagagctcca gcatccgcga gcgggactga tgggcactga 1140
aggtgtggta cgggtgctct gctgtgccat acagtatgag gctccattct ttcaacttcc 1200
cttgcttctc cgggttgccg acctgggatg cgagatcttg gattttccaa gtccactgcc 1260
cttcagcctt ttctcccag cagtggacag tcatgaattc ccagtttgta aaccttcat 1320
tggaagatc cagcaacctc tttgcaaaa gttgagactt ggttcccag ggagaaacca 1380
ggtagatctg gaggtctcct cggcgtgggt gtgagatgga ggtgcgaacc accacgtgct 1440
ccaagtagac caccgcgtg tccgagtgtc ccgcgcaggc gctggtcagg gccgtagtcc 1500
gcagcacctg cactaagggt atgctcctgg gtctcttgte cgaggcggcc acacacatgt 1560
gctgcgatgg cactgctgtc cacttctttg cctccacaac gagagcttct gcgtccacca 1620
aaccaaatcc atagaaatgg ctaactttat gaccgcgcgc gtttactttc cagtcgctcg 1680
ctttcagggt ggccggccgg gatgtcttca ctgacagggt ctggacgtcc ctccaggtta 1740
actggctgtt tgcttctaga gccaaaggcg tgatgcccgc caccatgggg gcagagactg 1800
aggtcccagt ttggccatcg gtacagcgtc gacgcagatc cgtggtgacg attttctgct 1860
cataaaaggc cccactgctg taggtgggtg ccagggtgga ggcacactct tccaggtacc 1920
agggcttgta gccattctcg gtggcgtgct tgacggagat ggtgtagatg ctggtggtgt 1980
agccatcgca cgagcagtag tccccctctc tcccgccatt ccagatgcc cagacgaaaa 2040
tggagccag gccctggcgg ccttttttaa tgccatactc gaaagcctgc ttagccagtc 2100
ggcggggccc gtccaccgtc ttgcccgtcg cgtccggccc ccagctggca ctgtaaagt 2160
cgatgtagtt gggctctgatg cccagcgact ttgctcgac cacatctgtg acatcgccgt 2220
ccagcatgcg gatgctcctc attttggcat tgtacgctat gccacgatg cagtaggaat 2280
tgtttgctga agcagcaact tctcccgcac aacgagtgcc gtgtttatct tcattgctgg 2340
catcatatcg ttgagatggg tcataatcat tgccgttcac gtcgtagctg gcgtaggat 2400
cataatttgg ggccagggtc ggggtgatttc tctctatgcc atcatcaagg atggtgacca 2460
ccacgttttt tctgtgttag cccctcttcc acgctgcctg gacattcatt tccgaccggc 2520
agcgaactgt cttgtcgcca caatgcaggt accacatgtt ggaccaaagt gggctcgtga 2580
agtaaagggc ctgcgggtca cttcgacact gtctcttcac ccttcgtttc acttctgtt 2640
gctggagcca ttccacctg ggggtccattc tgaggaagg gtgaggccct ctgctactca 2700
aggttgatct tttaaagggt ttgctgtgat aaaaatggta gtaatcttcc aggtttccaa 2760
tctggcccaa gttgaggtag ccgtgcgcgg gtcgcctcgt gtcgcctcgt gccgggccgc 2820
ccagcacttg caccgcccag tgggttggtg agacggggcg cggcgggggc gcgagcagg 2880
cggcagnnnn nnnnnnnnnn nnnnnnncagc cgccaggacg cggcgcgagc ggccggaacc 2940
cgggcccgcc ggccggcccc gcgcggcccc cgcccccgcc gcccgnnnnn nnnnnnnnnn 3000
nnnnnnnnnn ccggggcggc ggccgggggc cgggcgcagg cggcgcgcgc ggaggcatag 3060
cggcgacagg ctgcgcgggc gcccagagct cgagtgcgc ggggggtgga gtgccgcctt 3120
ttaagcgcgc tc 3132
```

<210> 15
<211> 6321
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 474310.13

<220>
<221> unsure
<222> 4385-4438, 4440, 4442, 4446, 4448, 4454, 4461
<223> a, t, c, g, or other

```
<400> 15
acggtgggtc cacttggagg gtctcgtcgc cagtgggaagg agccaccgcc cccgcccagc 60
catggccgag gagctggtct tagagagggt tgatctggag ctggagacca atggccgaga 120
ccaccacacg gccgacctgt gccgggagaa gctggtgggt cgacggggcc agcccttctg 180
gctgaccctg cactttgagg gccgcaacta cgaggccagt gtagacagtc tcaccttcag 240
tgtctgacc ggcccagccc ctagccagga ggccgggacc aaggcccgtt ttccactaag 300
agatgctgtg gaggagggtg actggacagc caccgtgggt gaccagcaag actgcacct 360
ctcgtgcag ctcaccaccc cggccaacgc ccccatcggc ctgtatcgcc tcagcctgga 420
ggctccact ggctaccagg gatccagctt tgtgtggggc cacttcattt tgctcttcaa 480
cgctggtgc ccagcggatg ctgtgtacct ggactcggaa gaggagcggc aggagtatgt 540
cctaccaccg cagggttcta tctaccagg ctccggccaag ttcatcaaga acatacctg 600
gaattttggg cagtttgaag atgggatcct agacatctgc ctgaccttc tagatgtcaa 660
cccaagttc ctgaagaacg ccggccgtga ctgctcccgc cgcagcagcc cgtctacgt 720
gggcggggtg gtgagtggca tgggtcaact caacgatgac cagggtgtgc tgctgggacg 780
ctgggacaac acggcgctcag ccccatgtcc tggatcggca gcgtggacat 840
cctgcggcgc tggaaagaac acggctgcca gctggtcagg tatggcaggt gctgggtctt 900
cgccgcggtg gcctgcacag tgctgaggtg cctgggcac cctaccgcgc tcgtgaccaa 960
```

ctacaactcg	gcccattgacc	agaacagcaa	ccttctcact	gagtacttcc	gcaatgagtt	1020
tggggagatc	caggggtgaca	agagcgcagat	gatcttgaac	ttccactgct	gggtggagtc	1080
gtggatgacc	aggccggacc	tgcagccggg	gtacgagggc	tggcaggccc	tggacccaac	1140
gcccagag	aagagcgaag	ggagctactg	ctgtggccca	gttccagttc	gtgccatcaa	1200
ggagggcgac	ctgagcacca	agtacgatgc	gccctttgtc	tttgcggagg	tcaatgccga	1260
cgtggtagac	tggatccagc	aggacgatgg	gtctgtgcac	aaatccatca	accgttccct	1320
gatcgttggg	ctgaagatca	gcactaagag	cgtgggccga	gacgagcggg	aggatatcac	1380
ccacacctac	aaatacccg	aggggtcctc	agaggagagg	gaggccttca	caagggcgaa	1440
ccacctgaac	aaactggccg	agaaggagga	gacagggatg	gccatgccga	tccgtgtggg	1500
ccagagcatg	aacatgggca	gtgactttga	cgtctttgcc	cacatcacca	acaacaccgc	1560
tgaggagtac	gtctgccgcc	tcctgtctctg	tgcccgcacc	gtcagctaca	atgggatctt	1620
ggggcccag	tgtggcacca	agtacctgct	caacctcaac	ctggggcctt	tctctgagaa	1680
gagcgttcc	ctttgcaccc	tctatgagaa	atacctgac	tgccctacgg	agtccaacct	1740
catcaagggtg	cgggccctcc	tcgtggagcc	agttatcaac	agctacctgc	tggctgagag	1800
ggacctctac	ctggagaatc	cagaaatcaa	gatccggatc	cttggggagc	ccaagcagaa	1860
acgcaagctg	gtggctgagg	tgtccctgca	gaaccgcctc	cctgtggccc	tgggaaggctg	1920
cacctctact	gtggaggggg	cgggcctgac	tgaggagcag	aagacggtgg	agatcccaga	1980
ccccgtggag	gcaggggagg	aagttaagggt	gacaaatggac	ctgctgccc	tccacatggg	2040
cctccacaag	ctgggtggtga	acttcgagag	cgacaagctg	aaggctgtga	agggccttccg	2100
gaatgtcatc	attggccccc	cctaaggggac	ccctgctccc	agcctgctga	gagccccccac	2160
cttgatccca	atcccttacc	caagctagtgt	agcaaaatat	gccccctctt	gggccccaga	2220
ccccagggag	gggtggggcag	cctatggggg	ctctcggaag	tggaaatgtg	ccctggccca	2280
tctcagcctc	ctgagcctgt	gggtccccac	tcacccctct	tgctgtgagg	aatgctctgt	2340
gccagaaaca	gtgggagccc	tgaccttggc	tgactggggc	tggggtgaga	gaggaaagac	2400
ctacattccc	tctcctgccc	agatgccctt	tggaaagcca	ttgaccacc	accatattgt	2460
ttgatctact	tcatactctc	ttggagcagg	caaaaaagg	acagcatgcc	ccttggctgg	2520
atcagggaat	ccagctccct	agactgcac	ccgtacctct	tcccatgact	gcaccagct	2580
ccagggggccc	ttgggacagc	cagagctggg	tggggacagt	gataggccca	aggtccctc	2640
cacatcccag	cagcccaagc	ttaatagccc	tcccctcaa	cctcaccatt	gtgaagcacc	2700
tactatgtgc	tgggtgcctc	ccacacttgc	tggggctcac	ggggcctcca	accatttaa	2760
tcaccatggg	aaactgttgt	gggcgctgct	tccaggataa	ggagactgag	gcttagagag	2820
aggaggcagc	ccccccaca	ccagtggcct	cgtggttatt	agcaaggctg	ggtaattgtga	2880
aggcccaaga	gcagagtctg	ggcctctgac	tctgagtcca	ctgctccatt	tataaccca	2940
gcctgacctg	agactgtcgg	agaggctgtc	tggggccttt	atcaaaaaaa	gactcagcca	3000
agacaaggag	gtagagaggg	gactggggga	ctgggagtoa	gagccctggc	tgggttcagg	3060
ttccacgtct	ggccaggcac	tgccctctcc	tctctgggcc	tttgtttcct	tgttggtcag	3120
aggagtgatt	gaaccagctc	atctccaagg	atcctctcca	ctccatgttt	gcaatgcttt	3180
tatatggccc	agccttgtaa	ataaccacaa	ggtccactcc	ctgctccacg	aagccttaag	3240
ccataggccc	tgagagtga	tgagagtga	accacacttc	tgaccacctt	ctgtccccc	3300
ccctgtcctg	gttctctctc	atggccagg	gagcctgccc	agacccagct	tctaggggag	3360
aagagccctg	gacacccctg	ctctacccat	aaccaacaag	gctgcaatgc	ctagacttcc	3420
caacagcctt	agctgccagt	gctggtcact	gcccctgccc	ggttggcacc	cagctacccc	3480
tcttttgcag	ggctataagg	cccaaacata	gctctttcta	cggaggaagc	ttgggggaac	3540
catgagttgt	cagctttgac	tttatctctc	gtgagatcac	catgactggg	cctcccttgg	3600
gctggaagaa	ttggggattc	tctattggag	tggttgcatt	agcctccagg	gccccccaaa	3660
ttccagggaa	ggacttggag	agaatcatgc	tattttctct	agaactttct	gctttgcaca	3720
ggaaagagtc	acacaattaa	tcaacatgta	atcatatagag	ctctatttct	ctctatttct	3780
ctacggtttt	ataaaagcct	tgggttccaa	caggcagta	gatgtgcttc	tgaaccgcaa	3840
ggagcaaaca	ctgaaataaa	ataaacttgt	cctctgcata	ttcatccacg	tccaccttcc	3900
ggaagaggcc	tttgccgctg	gtcgggattg	ggatgtcgaa	gaacacagtg	togtccggcc	3960
gcttccggaa	ggaaagacag	ccaccgacct	cagaagcagc	ccctccttgc	gctggaccag	4020
aaggataagg	ggagacctag	ccaccagtgg	gccagtggg	gtgaggggct	tctaggaana	4080
ccggtgtctg	ggactctggc	ggttgatggg	gtcatctgag	cgggatgctg	ggcctccacc	4140
ttccaacctc	ctccgggaca	gtacaggttt	gggggcaagg	cctgagcagg	gcaggctggg	4200
gagaccgctg	tccttggggg	tttgtgggca	ggggctgggt	gcaggccgga	cagacagaaa	4260
gcagtcccag	ctcaaggcag	aaggccagag	ggtgtggagt	gaaagggaca	ggcgaagcca	4320
ggttcgggag	gatggagggg	acaggccacc	aagctcagaa	gcgagaaaag	tctgaggaag	4380
cacannnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	4440
anagananag	aganagagag	naaggacggg	gaaagagaga	acagaaggga	ggactggctg	4500
aagggccagt	ggagcagggg	tcttggaggg	acaggccatg	aacttgcaag	ggggctgagg	4560
ggagccgag	agtccgggag	ggttgaaagg	ctggaatgc	atgaggagga	ggaacagaa	4620
atgtgtgtct	ggcaggggtc	ggcagccctg	gcagagccca	ctgtcccat	tcttatggac	4680
cgctctctgg	ctgctgaccc	agggactgtt	ctcctaggac	tggagccttg	gacacttggg	4740
tttgggagtg	aacgagaaaa	aagcttcatg	gggtgcctct	gggtggctgt	ggtgggagag	4800
caggggcagc	tctgaggcca	agggaacatg	tgatgggggc	cgggccttgc	gcccacctgc	4860
acccttggga	gccggggaga	ggcgtgtgat	gtggctcgag	ctggggctag	ggacctgag	4920
tggggggctg	ggttggacgc	agctggggcc	tggcttagct	tctgtgctct	gcctcccat	4980

caggatgtct	ggctgtgttc	cccagagacc	cccactgagg	ccccgcggtg	gctgcagctg	5040
cctctacttt	ttgtagtgtc	caaactggat	ggccaggcgg	tcagtgcgc	agcggaaagt	5100
ggccggctgc	acctcccagt	agggcacggg	gttgttgaag	aggctgatgc	cgttgtagta	5160
ggcccgcttc	accccgaaag	ccatgggaca	gaagtgcgtt	acaccactt	tggtgatgtt	5220
gttggagtgc	agatagacca	cctggaggag	cttgaggctc	gggagccctg	agggcaccct	5280
ggccaacttg	ttgttgtcca	agtggagctc	ccggagggtg	ggcaggaagc	tcaggctccc	5340
gttctcgatc	atcctgatct	ggttgtggcc	taggccccagc	ctgtacagct	tggagtagcg	5400
aagcagggtc	tccagttcga	tggcctggat	tttgttgtgg	tctaggtgga	gttcattcag	5460
ggctccaggg	aggtcttttg	ggatgccagt	cagcttggcc	tctgagatgc	gcaggtagtt	5520
gagcttcagg	ccatcgaaag	ctccagggtc	aaagccactg	ttctccagtg	ggttcccggc	5580
catctcgatg	cagttcatgt	tccggagccc	gctgaacact	cccttgggca	ccttgccgat	5640
gcggttgtcg	tggatgcgga	gctccaccag	ggagctgggt	aggttgggcg	ggatctccac	5700
caggtgggtc	ttggagatgt	agagcttctg	cagcttccgc	agtgggctga	aggccttctc	5760
atggtctctt	gaggtctctg	tggtccaccag	gacgagggcg	tagaggtgct	ggagaccctt	5820
gaagtcattc	ttgcggagct	cggagatgtc	gttgttctgc	aggctccagc	gcgtggtgtc	5880
aggggagatc	tctttgggca	cagacttcag	accaggtcgc	gagcactgaa	ccaccgcgag	5940
gtggcagtg	cagccgaaag	gacacatggc	gctgtagggt	ggtgtgacag	agtccgggtc	6000
caggacgctt	gaggtgtcag	cgcccgaagc	ttctcatcgc	ttcatcatga	atggcccctc	6060
gtccagggtg	aagtcccaga	agcctctctg	ctcaaagggc	agggcctggc	tcaggggccag	6120
cagagacacg	agggcgccaca	ggggccacat	ggcggtatga	cctggagagg	ggaggcgcca	6180
ggcgagggct	gactagtgtg	cgggctgggg	tgttggggcg	tccgcacgtc	tatctgtccg	6240
gtgtgtccgg	cggaccgaaa	gcagctactc	actcctgggc	agtttgtgga	gagagggaga	6300
cagagggcgg	ggggcgggagg	c				6321

<210> 16

<211> 3413

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 413006.13

<400> 16

caactgtcaa	aatgtttacg	cacctgggtg	agattttctgc	aaaatgagaa	atagaccttc	60
tactttaaat	taattactga	aataatagca	ccttattcag	tgtgtgtgctt	accaatttat	120
tatgtacgtt	aacacgatgg	atctcaaact	cttagctgtc	aaacactgat	ggatgtaact	180
gagaaaaatg	tattttctgt	tatttaggta	tcttgaactc	atttgcattg	gtttacattc	240
taacacattt	acttttgtga	gagagacaag	acaggttatc	ccgttaatgc	tcacagtatg	300
cgctgtacct	gaaaatgtca	tatgtcatgc	atattgcggt	ggcaaaaatg	ttgagaaaga	360
ctgaggaaac	cgcagacaga	ccgcgcaggg	agcacacacc	gccagtctgt	gcgctgagtc	420
ggagccagag	gcgcgcgagg	caccggggcca	tgcacgcccc	caactgaagc	tgcattctcaa	480
agccgaagat	tccagcagcc	caggggattt	caaagagctc	agactcagag	gaacatctgc	540
ggagagaccc	ccgaagccct	ctccaggggc	gtcctcatcc	agacgctccg	ctagtgcaga	600
caggagcgcg	cagtggtccc	ggctcgccgc	gccatgggag	ggatccccag	cgcgcaacca	660
ccccccgcct	gcctgcccac	agcaccggga	ctggagcacg	gagacctacc	agggatgtac	720
cctgcccaca	tgtaccaagt	gtacaagtca	agacggggaa	taaagcggag	cgaggacagc	780
aaggagacct	acaaattgcc	gcaccggctc	atcgagaaaa	agagacgtga	cgggattaac	840
gagtgcacgc	cccagctgaa	ggatctccta	cccgaacatc	tcaaaactac	aactttgggt	900
cacttgaaaa	aagcagtggt	tcttgaactt	accttgaagc	atgtgaaagc	actaacaac	960
ctaattgac	agcagcagca	gaaaatcatt	gccttgacga	gtggtttaca	agctggtgag	1020
ctgtcaggga	gaaatgtcga	aacagggtcaa	gagatgttct	gctcaggttt	ccagacatgt	1080
gcccgggagg	tccttcagta	tctggccaag	cacgagaaca	ctcgggacct	gaagtcttcg	1140
cagcttgtca	ccacactcca	cggggtggtc	tcggagctgc	tgcagggtgg	tacctccagg	1200
aagccatcag	accagctcc	caaagtgatg	gacttcaagg	aaaaaccag	ctctccggcc	1260
aaaggttcgg	aaggtcctgg	gaaaaactgc	gtgccagtca	tccagcggac	tttcgctcac	1320
tcgagtgggg	agcagagcgg	cagcgacacg	gacacagaca	gtggctatgg	aggagaatcg	1380
gagaaaggcg	acttcgcag	tgagcagccg	tgcttcaaaa	gtgaccacgg	acgcaggttc	1440
acgatgggag	aaaggatcgg	cgcaattaag	caagagtccg	aagaaccccc	cacaaaaaag	1500
aaccggatgc	agctttcgga	tgatgaaggc	catttcaact	gcagtgcact	gatcagctcc	1560
cggttctcgg	gcccacaccc	acaccagcct	cctttctgcc	tgcccttcta	cctgatccca	1620
ccttcagcga	ctgcctacct	gcccattgct	gagaagtgtc	ggtatccac	ctcagtcca	1680
gtgctatacc	caggcctcaa	cgccctctgc	gcagccctct	ctagcttcat	gaaccagac	1740
aagatctcgg	ctcccttgct	catgccccag	agactccctt	ctcccttgcc	agctcatccg	1800
tccgtcgact	cttctgtcct	gctocaaagt	ctgaagccaa	tcccccttt	aaacttagaa	1860
accaaagact	aaactctcta	ggggatcctg	ctgctttgct	ttccttcttc	gctacttctt	1920
aaaaagcaac	aaaaaagttt	ttgtgaatgc	tgcaagattg	ttgcattgtg	tatactgaga	1980

taatctgagg	catggagagc	agattcaggg	tgtgtgtgtg	tgtgtgtgtg	tgtgtgtgtg	2040
tgtgtatgtg	cgtgtgcgtg	cacatgtgtg	cctgcgtgtt	ggtataggac	tttaaagctc	2100
cttttggcat	agggaaagta	cgaaggattg	cttgacatca	ggagacttgg	gggggattgt	2160
agcagacgtc	tgggcttttc	cccacccaga	gaatagcccc	cttcgatata	catcagctgg	2220
attttcaaaa	gcttcaaagt	cttggctctg	gagtcactct	tcagtttggg	agctgggtct	2280
gtggctttga	tcagaaggta	ctttcaaaag	agggctttcc	aggggctcag	ctcccaacca	2340
gctgttagga	ccccaccctt	ttgcctttat	tgtcgacgtg	actcaccaga	cgtcggggag	2400
agagagcagt	cagaccgagc	tttctgctaa	catggggagg	tagcaggcac	tggcatagca	2460
cggtagtggg	ttggggagg	ttccgcaggt	ctgctcccca	ccccctgcctc	ggaggaataa	2520
agagaatgta	gttccctact	caggcttttcg	tagtgattag	cttactaagg	aactgaaaat	2580
gggccccttg	tacaagctga	gctgcccccg	agggaaggag	gagttccctg	ggcttctggc	2640
acctgtttct	aggcctaacc	attagtactt	actgtgcagg	gaaccaaacc	aaggctctgag	2700
aaatgcggac	accccgagcg	agcaccccaa	agtgcacaaa	gctgagtata	aagctgcccc	2760
cttcaaacag	aactagactc	agttttcaat	tccatccata	aactcctttt	aaccaagctt	2820
agctttctaa	aggcctaacc	aagccttggc	accgccagat	cctttctgta	ggctaattcc	2880
tcttgcccaa	cggcatatgg	agtgtccctta	ttgctaaaaa	ggattccgtc	tccttcaaaag	2940
aagttttatt	tttgggtccag	agtacttggt	ttcccgatgt	gtccagccag	ctccgcagca	3000
gcttttcaaa	atgcactatg	cctgattgct	gatcgtgttt	taactttttc	ttttcctgtt	3060
tttatttttg	tattaagtgc	ttgcctttat	ttgtaaaagt	gttataaata	tatattatat	3120
aatatatatt	tgtaaagctg	ttataaatat	atattatata	aatatattata	aaaggaaaat	3180
gtttcagatg	tttatttgta	taattacttg	attcacacag	tgagaaaaaa	tgaatgtatt	3240
cctgtttttt	aagagaagaa	taattttttt	tttctctagg	gagaggatata	gtgtttatat	3300
tttggagcct	tcctgaaggt	gtaaaattgt	aaatatTTTT	atctatgagt	aaatgttaag	3360
tagttgtttt	aaaatactta	ataaaataat	tcttttcttg	tggaagagaa	aaa	3413

<210> 17
 <211> 2169
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 076460.2

<400> 17						
ggagggcgtct	gcgctgatcg	ggtcgcgcgc	gcccagagagc	cagagtcgca	gccgagggga	60
gcccggggcgg	gagcccgagc	ccgagcccgag	ccggagcccg	agcgagcggc	ggagaccgtg	120
cccccgctc	ggccccgcgc	cgccgcggcc	aggcccgga	tggaggagga	gtgccgggtg	180
ctctccatac	agagccacgt	catccgcggc	tacgtgggca	accgggcggc	caccgttccc	240
gctgcagggtt	ttgggatttg	agattgacgc	ggtgaaactct	gtccagtttt	caaaccacac	300
aggctatgcc	cactggaagg	gccaaagtgt	gaattcagat	gagctccagg	agttgtacga	360
aggcctgagg	ctgaacaaca	tgaataaata	tgactacgtg	ctcacagggt	atacagaggga	420
caagtcgttc	ctggccatgg	tgggtggacat	tgtgcaggag	ctgaagcagc	agaacccccag	480
gctggtgtac	gtgtgtgatc	cagtcttggg	tgacaagtgg	gacggcgagg	gctcgatgta	540
cgtcccgagg	gacctccttc	ccgtctacaa	agaaaaagtg	gtgccgcttg	cagacattat	600
cacgcccaac	cagtttgagg	ccgagttact	gagtgccggg	aagatccaca	gccaggagga	660
agccttgccg	gtgatggaca	tgtctgactc	tatgggcccc	gacaccgtgg	tcataccaccg	720
ctccgacctg	ccctccccgc	agggcagcaa	ctacctgatt	gtgctgggga	gtcagaggag	780
aaggaatccc	gctggctccg	tgggtgatgga	acgcattccg	atggacattc	gcaaagtgga	840
cgccgtcttt	gtgggcactg	gggacctgtt	tgtgtccatg	ctcctggcgt	ggacacacaa	900
gcaccccaat	aacctcaagg	tggcctgtga	gaagaccgtg	tctaccttgc	accacgttct	960
gcagaggacc	atccagtgtg	caaaagccca	ggccggggaa	ggagtgaggc	ccagccccat	1020
gcagctggag	ctgcggatgg	tgcagagcaa	aaggagacac	gaggaccag	agatcgtcgt	1080
ccaggccaacg	gtgctgtgag	ggccccgcgc	cttgcccggtg	acacgcagcg	cgttggtgtc	1140
tccgtgtttg	tccctgtgaa	aacatgtaac	gtctgcctta	gagccatgac	cgaaacttga	1200
tatttttttc	tttcatgagt	gtccggcatc	tgtgtgtctt	cattgtgaaa	cgtgccagtc	1260
gtgcttttgg	aaaaataaca	aagtgggtcac	agaaatttgt	gatctgaaaa	cccgggtccc	1320
ttccccacaa	ggctcctggg	cctccgggaa	caggggcccc	tgtttgccat	ctcgggggtg	1380
ttccctgtgg	gaggggtgagt	gggtgaggcc	gagcctgctg	cgtgtggagc	ctcgagtggg	1440
ccctggctgc	cactaccgta	cagaggccgt	gtcgcgctgg	gctgggcttg	ggtggcctct	1500
gtctttgcac	ctctgagaag	gagtcgggtg	gtaacggttg	gggtcaggaa	gaattctgcc	1560
aagtatcttt	actgtcattc	tgaccatagc	ctctttgttc	cgcattcgga	acttttgggt	1620
cttactttgc	tgtctgttta	gtccctgggg	atttcagatc	ttaggctgtt	gtttccaccg	1680
atgggagggt	tgatgtgagc	ttgcttggag	acacacggtg	cagcatcagg	gaccttccca	1740
ggccccagca	aattcaagtc	ggtctgcaga	cctctcagct	acccgcggga	cctcttgtaa	1800
cccatcgga	tcttcaggga	atccgcagag	tgacttgagg	aagatgctaa	cgcagtaagg	1860
tctgtgctgg	gccaaagagca	gctttgaagc	tccagagaa	caccccgta	ggttccttgc	1920

ggaagctccc ctcacccgtg gtgcagcagg ctgagcactg cgcgttttgc acgtgctgcc 1980
cgtgacagca cattgagcca cagcatttgt agacaggaca gaggggtgcc tgccccctgc 2040
ccctgctggc acatttaacc cttgtccctt gacctcagtt ctgtgcccc acaaatgccc 2100
aggggcaaga ggccaccctg gaagctgcc aatcttccaag gtgggtgtgg ggcacggtgg 2160
gggcgggca

<210> 18
<211> 2578
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 474374.4

<220>
<221> unsure
<222> 2154
<223> a, t, c, g, or other

<400> 18
cactagccctc ctgccccgcg gcgctgccgc acgagcccca cgagccgctc accccgcgct 60
tctcagcgct gcccgacccc gctggcgcgc cctcccgccg ccagtcccg cagcgccctc 120
agttgtcctc cgaactcgcc tggccttcc gcgccagccg cagccacagc cgcaacgcca 180
cccgacagca cagccacagc cacagcccca ggcatagcct tcggcacagc cccgggctcc 240
ggctcctgcg gcagctcctc tgggcaccgt cctgcgcgcg acatcctgga ggttggtatg 300
ctctgttcca aaatcaactc gcttgccac ctgcgcgcgc cgccctgcaa cgacctgcac 360
gccaccaagc tggcgcccg caaggagaag gagccctgg agtcgcagta ccaggtgggc 420
ccgctactgg gcagcgccg ctccggctcg gtctactcag gcatccgct ctcgcacaac 480
ttgcgggtgg ccatacaaca cgtggagaag gaccggattt ccgactgggg agagctgcct 540
aatggcactc gagtgcacat ggaagtggtc ctgctgaaga aggtgagctc gggtttctcc 600
ggcgtcatta ggctcctgga ctgggttcgag agggccgaca gtttcgtcct gatcctggag 660
aggcccgagc cgggtgcaaga tctcttcgac ttcatacagg aaaggggagc cctgcaagag 720
gagctggccc gcagcttctt ctggcagggt ctggaggccg tgcggcactg ccacaactgc 780
gggtgtcctc acccgacat caaggacgaa aacatcctta tcgacctcaa tcgcgccgag 840
ctcaagctca tcgacttcgg gtccggggcg ctgctcaagg acaccgtcta caccgacttc 900
gatgggaccc gagtgtatag cctccagag tggatccgct accatcgcta ccatggcagg 960
tcggcgccag tctggtccct ggggatacct ctgtatgata tgggtgtgg agatattcct 1020
ttcgagcatg acgaagagat catcaggggc cagggtttct tcaggcagag ggtctcttca 1080
gaatgtcagc atctcattag atgggtgctt gccctgagac catcagatag gccaaccttc 1140
gaagaaatcc agaaccatcc atggatgcaa gatgttctcc tgcccagga aactgctgag 1200
atccacctcc acagcctgtc gccggggccc agcaaatagc agcctttctg gcaggtcctc 1260
ccctccttg tcagatgcc gagggagggg aagcttctgt ctccagcttc ccgagtacca 1320
gtgacacgtc tcgccaagca ggacagtgt tgatacagga acaacattta caactcattc 1380
cagatcccag gccctggag gctgcctccc aacagtgggg aagagtgact ctccaggggt 1440
cctaggcctc aactcctccc atagatactc tcttcttctc ataggtgtcc agcattgtgt 1500
gactctgaaa tatccgggg gtgggggggt ggggtgggtc agaaccctgc catggaactg 1560
tttcttctat catgagttct gctgaatgcc gcgatgggtc aggtaggggg gaaacaggtt 1620
gggatgggat aggactagca ccattttaag tccctgtcac ctcttcgac tctttctgag 1680
tgcttctgt ggggactccg gctgtgctgg gagaaatact tgaacttgcc tcttttacct 1740
gctgcttctc caaaaatctg cctgggtttt gtccctatt tttctctct gtcctccctc 1800
accctcctc tcatatgaaa ggtgccatgg aagaggctac agggccaaac gctgagccac 1860
ctgccctttt ttctgcctcc tttagtaaaa ctccgagtga actggtctc ctttttgggt 1920
tttacttaac tgtttcaag ccaagacctc acacacacaa aaaatgcaca acaaatgcaa 1980
tcaacagaaa agctgtaaat gtgtgtacag ttggcatggt agtatacaaa aagattgtag 2040
tggatctaata ttttaagaaa ttttgccctt aagttatttt accgttttt gtttctgtt 2100
ttgaaagatg cgcattctaa cctggaggtc aatgttatgt atttatttaa ttanttat 2160
ggttcccttc ctattccaag cttccatagc tgctgcccta gttttcttct ctcctttcct 2220
cctctgactt ggggaccttt tgggggaggg ctgcgacgct tgctctgttt gtgggggtgac 2280
gggactcagg cgggacagtg ctgcagctcc ctggcttctg tggggccctc cacctactta 2340
cccagggtgg tcccgctct gtgggtgatg gggaggggca ttgctgactg tgtatatagg 2400
ataattatga aaagcagttc tggatggtgt gccttcagaa tctctctctg ggctgtgttt 2460
tgagcagcag gtagcctgct ggttttatct gagtgaataa ctgtacaggg gaataaaaga 2520
gatcttattt ttttttttat acttggcggt ttttgaataa aaacctttt tcttaaaa 2578

<210> 19
<211> 2618

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 427792.8

<400> 19
gcccaggcta cggcggtctg aggggtccgg caaccgctcc ggcaacgcca accgctccgc 60
tgcgcgcagg ctgggctgca ggctctcggc tgcagcgtcg ggtgtcttca ggcctatgga 120
gagcagcttg cgtgggctgg gcctgcagta cctggtttgc atagatgatt ggcagggtgga 180
tctaggatcc ggcttccaac atgtggcagc tctgggcctc cctctgctgc ctgctgggtg 240
tggccaatgc cgggagcagg cctcttttcc atcccctgtc ggatgagctg gtcaactatg 300
tcaacaacac gaataccacg tggcaggcgg ggcaacaact ctacaacgtg gacatgagct 360
acttgaagag gctatgtggt accttctctg gtgggcccac gccaccccag agagtatatg 420
ttaccgagga cctgaagctg cctgcaagct tcgatgcacg ggaacaatgg ccacagtgtc 480
ccaccatcaa agagatcaga gaccagggct cctgtggctc ctgctgggcc ttcggggctg 540
tggaagccat ctctgaccgg atctgcaccc acaccaatgc gcacgtcagc gtggaggtgt 600
cggcgaggga cctgctcaca tgcctgtggc gcatgtgtgg ggacggctgt aatgggtggc 660
atcctgctga agcttggaa cttctggaca gaaaaggcct ggtttctggt ggcctctatg 720
aatcccatgt aggggtgcaga ccgtactcca tccctccctg tgagcaccac gtcaacggct 780
cccggccccc atgcacggcg gagggagata ccccacagtg tagcaagatc tgtgagctgc 840
gctacagccc gacctacaaa caggacaagc actacggata caattcctac agcgtctcca 900
atagcgagaa ggacatcatg gccgagatct acaaaaacgg ccccggtggag ggagctttct 960
ctgtgtattc ggacttccctg ctctacaagt caggagtgtg ccaacacgtc accggagaga 1020
tgatgggtgg ccattgccatc cgcactcctg gctggggagt ggagaatggc acaccctact 1080
ggctgggtgc caactccttg aacactgact ggggtgacaa tggcttcttt aaaatactca 1140
gaggacagga tcaactgtga atcgaatcag aagtgggtggc tggaaattcca cgcaccgatc 1200
agtactggga aaagatctaa tctgcctgg gcctgtcgtg ccagtcctgg gggcgagatc 1260
ggggtagaaa tgcattttat tctttaagtt cacgtaagat acaagtttca ggcagggtct 1320
gaaggactgg attggccaaa catcagacct gcttccaag gagaccaagt cctggctaca 1380
tcccagcctg tggttacagt gcagacaggg catgtgagcc accgctgcca gcacagagcg 1440
tccttcccc tgtagactag tgccgtaggg agtacctgt gccccagctg actgtggccc 1500
cctccgtgat ccattccatct ccaggggagca agacagagac gcaggaatgg aaagcggagt 1560
tcctaacagg atgaaagtcc ccccatcagt gaggagagat ggtgttggga gccctttgga gaacgccagt 1620
cacatttgtc acagaaatca gaggagagat caatgtcaca acctctctga tcttgtgctc 1680
ctcccaggcc ccctgcactc atcgagtttg caatgtcaca acctctctga tcttgtgctc 1740
agcatgattc tttaatagaa gttttatttt ttcgtgcact ctgctaatac tgtgggtgag 1800
ccagtggaa agcgggagac ctgtgctagt tttacagatt gcctcctaata gacgcggtc 1860
aaaaggaaa caagtgggtca ggagtgtgtt ctgaccact gatctctact accacaagga 1920
aaatagttta ggagaaacca gcttttactg tttttgaaaa attacagctt caccctgtca 1980
agttaacaag gaatgcctgt gccataaaaa ggtttctcca acttgaagtc tactctgatg 2040
ggatctcaga tctttgtca ctgcctatag actttagact gctgtctctc tttgtccctg 2100
cagagaatca cgtcctggaa ctgcactctc ttgagactct tgggacttca tcttaacttc 2160
tcgtgcctcc agccatgttt tcaacctagg catccctccc ccaattagaa cctgttcaac 2220
ctcgtcaaac atctctgtaa gtgcctggta agcttgccct tgccttaagaa ctcaaaacat 2280
agctgtgctc tatttttttg ttgttgttgt gactgacgga gtgagattcc gtctcccagg 2340
ctggagtgca gtggcgctt ctgagctcac tgcaacctca cgcctgatac tgtatcaggc 2400
gtgaagtgtc agtgagccac ggacaagtgc cagtggcact tccaggctcg cgtgtacagc 2460
ggcaaggagt ccggtctcca ataaattaaa gagagacaaa aaaaaaaaag ggggcgggcc 2520
cggctcttag aagggatatc caagggtctt aacgaaacgg cggtgacaat gcggaccgtg 2580
cataaggctc cttttcagac aacaccaaag aaaaaaag 2618

<210> 20
<211> 3975
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 364482.3

<400> 20
cggcgctcgg gtgcgctcgg cctcgccgcg ggccctcctt ccccggtccc cgtcgcgcgc 60
tcgttctact caccgcgcgc gccgcgcgcg ccgtgcgcgc tgcgcgtgcc gcacctccgt 120
agctgactcg gtactctctg aagatggcag aagctcacca agctgtggcc tttcagttca 180
cggctactcc ggacgggatt gacctgcggc tgagccatga agctcttaga caaatctatc 240

tctctggact	tcattcctgg	aaaaagaagt	tcatacagatt	caagaacggc	atcatcactg	300
gcgtgtaccc	ggcaagcccc	tccagttggc	ttatcgtggg	ggtgggcgtg	atgacaacga	360
tgtacgcaa	gatcgacccc	tcgttaggaa	taattgcaaa	aatcaatcgg	actctggaaa	420
cggccaactg	catgtccagc	cagacgaaga	acgtggtcag	cggcgtgctg	tttggcaccg	480
gcctgtgggt	ggccctcatc	gtcaccatgc	gctactccct	gaaagtgtctg	ctctcctacc	540
acgggtggat	gttcaactgag	cacggcaaga	tgagtcgtgc	caccaagatc	tggatgggta	600
tggtcaagat	cttttcaggc	cgaaaaccca	tgttgtacag	cttccagaca	tcgctgcctc	660
gcctgccggg	cccggctgtc	aaagacactg	tgaacaggta	tctacagtcg	gtgaggcctc	720
ttatgaagga	agaagacttc	aaacggatga	cagcacttgc	tcaagatttt	gctgtcggtc	780
ttggaccaag	attacagtgg	tatttgaagt	taaaatcctg	gtgggctaca	aattacgtga	840
gcgactgggtg	ggaggagtac	atctacctcc	gaggacgagg	gccgctcatg	gtgaacagca	900
actattatgc	catggatctg	ctgtatatcc	ttccaactca	cattcaggca	gcaagagccg	960
gcaacggcat	ccatgccatc	ctgctttaca	ggcgcaaaact	ggaccgggag	gaaatcaaac	1020
caattcgtct	tttgggatcc	acgattccac	tctgtccgc	tcagtgggag	cggatgttta	1080
atacttcccg	gatcccagga	gaggagacag	acaccatcca	gcacatgaga	gacagcaagc	1140
acatcgtcgt	gtaccatcga	ggacgctact	tcaaggtctg	gctctaccat	gatgggcggc	1200
tgctgaagcc	ccggggagatg	gagcagcaga	tcagaggat	cctggacaat	acctcgagc	1260
ctcagccggg	ggaggccagg	ctggcagccc	tcaccgcagg	agacagagtt	ccctgggcca	1320
ggtgtcgtca	ggcctatttt	ggacgtggga	aaaataagca	gtctcttgat	gctgtggaga	1380
aagcagcgtt	cttcgtgacg	ttagatgaaa	ctgaagaagg	atacagaagt	gaagaccccg	1440
atagctcaat	ggacagctac	gccaatctc	tactacacgg	ccgatgttac	gacaggtggt	1500
ttgacaagtc	gtttcacgttt	gttgtcttca	aaaacgggaa	gatgggcctc	aacgctgaac	1560
actcctgggc	agatgcgcgc	atcgtggccc	acctttggga	gtacgtcatg	tccattgaca	1620
gcctccagct	gggctatgcg	gaggatgggc	actgcaaagg	cgacatcaat	ccgaacattc	1680
cgtacccccc	caggctgcag	tgggacatcc	cgggggaatg	tcaagaggtt	atagagacct	1740
ccctgaacac	cgcaaatctt	ctggcaaacg	acgtggattt	ccattccttc	ccattcgtag	1800
cctttggtaa	aggaatcatc	aagaaatgtc	gcacgagccc	agacgccttt	gtgcagctgg	1860
ccctccagct	ggcgccactac	aaggacatgg	gcaagttttg	cctcacatac	gaggcctcca	1920
tgaccgggct	cttcggagag	gggaggacgg	agaccgtgcg	ctcctgcacc	actgagtcac	1980
gcgacttcgt	gcgggccatg	gtggaccccg	ccagacgggt	ggaacagagg	ctgaagtgtg	2040
tcaagtgggc	catcagcata	catcagcata	tgtatcgctt	cgccatgacc	ggctctggga	2100
tcgatcgtca	cctcttctgc	ctttacgtgg	tgtctaaata	tctcgtctgt	gagtccectt	2160
tccttaagga	agttttatct	gagccttgga	gattatcaac	aagccagacc	cctcagcagc	2220
aagtggagct	gtttgacttg	gagaataacc	cagagtacgt	gtccagcggg	gggggctttg	2280
gaccggttgc	tgatgacggc	tatgggtgtg	cgtacatcct	tgtgggagag	aacctcatca	2340
atttcacat	ttcttccaag	ttctcttgcc	ctgagacgga	ttctcatcgc	tttgggaaggc	2400
acctgaaaga	agcaatgact	gacatcatca	ctttgtttgg	tctcagttct	aattccaaaa	2460
agtaattcca	ctggagctgc	tgggaaggaa	aacgagctct	tctgatgcaa	accaaataaa	2520
aaataggcat	taatcctgac	cttagctcgg	tgctcttaaa	tgctcttaaa	aaaactcagt	2580
ttctcttcca	gaaaatgtgg	gtgttttttt	ttcctagaac	agtatctctc	ccctgtgaag	2640
cataacccca	ctacttccag	acttgccctc	ccttggggga	catctgataa	agtctccctt	2700
gatgtctccg	catcggtctg	gatttattaa	gggatgcaaa	tcttgttgag	ttaatgaagg	2760
aattagtagg	gttgtggctt	cacacacagt	ggaatggaaa	tggtgtgctt	tctcagtggc	2820
aaccgaaggc	ctagtgcctt	agggcatttta	gcatcatcca	agcagggtaa	acttttgttt	2880
tgtaaaaaga	aaaatgtgtt	attcaagtgt	gtgtccccag	ttgtagctaa	cacatctgga	2940
atgcactaac	caaaatgctg	tgtcttggag	acctgctttt	gtcacctgtg	gtaaccgttc	3000
ccgtctggtc	cagtagcctg	tgtttgcctc	tccacatttg	aagcaagcag	gatgcaagg	3060
cttcagtttt	actgaccttg	tatgtcttca	agtcctcaca	acctcagtcg	ttaaaaatga	3120
aaggccctaa	atgtaaggga	gatggagaga	aagatttatt	ttgtagagtc	tttgggtgga	3180
attgtgggta	tactgttccc	ttcacaattg	actgagtatg	gataaccgta	cataagcatt	3240
tgctacaccc	caccagcccc	ctccccctca	gaaacaccag	ttccttccca	agggcagctg	3300
tgcagacatc	ccctcccggg	actgccttct	tgtcatcata	agcaacaaaa	gaaataacag	3360
gcacatgtca	taaaagggga	gcaaggcccg	tggtggtcag	ataattcact	caagaataaa	3420
acatgacacg	tgccctcagga	ggatctcttt	cccaaagtga	cagcaaggag	ggcaggggcat	3480
cggccaccaaa	gcggggacta	gcaagtgagg	aaggggaggg	cagtcaccag	tggtgaggag	3540
agagtggctc	cacgaoccca	agggatggcc	ttctcctccc	accgggtgag	gggaaagact	3600
caccagaggg	tgatggagac	agtatgccgg	ctcaccttgg	tgaccagcca	agatgtctca	3660
agtgacgggtg	ctgggtgttc	accagacctg	tccttcagat	aggagtgcct	tcacgaaagc	3720
gtctcatgga	ccacaaagca	attatgcact	gagtcactct	cagtatttaa	tgcaaaaatg	3780
aagcatcatg	gaatgaaatt	cccactgtct	gtcatgacaa	gcttagctgt	ccattgtttt	3840
aaattgtgta	tttatttttt	tgaccacttg	gttctagtgt	ggcctgactc	cttcagagtg	3900
ctgcaccccg	atagtacaac	agcgatggct	gaactgttgg	agtcgatgga	aggtgcttgc	3960
cggagaacac	gtgcc					3975

<210> 21
 <211> 584
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 978487.1

<220>

<221> unsure

<222> 575

<223> a, t, c, g, or other

<400> 21

gcgacagagc	gagactccgt	ctaaaaaaaa	aagcaaaaac	aaaccaacaa	caaaagcccc	60
tgactgtccg	tcaagcaggc	agcgggggatg	tagctctctc	tgccctgggc	aagaatagca	120
cttcccggtta	aaagccagca	gccggcgctca	gtccctatca	gagccagcta	gatcatgcac	180
tggtgaccac	tgagcaatct	gtgttacact	agagttcaca	gggcattttg	agtgtagacg	240
tgagtgccta	aacataattg	ggtttctctc	tcagggttta	aatgtttcaa	atgtaattgt	300
tgctcatcag	tgagttatc	aatgcaatct	tatattcctt	gaggggagaa	agaggggtct	360
tattgtacat	gtccaagggg	ggtgataaga	gtattatctg	tttaatttaa	ttggaacaaa	420
ccattgtctt	aacgcagcca	tggtttgaat	ttgttatctt	gggctgaccg	gtgcatgtaa	480
atacagtatg	ctctttggat	gtaaatctta	gaaatgcagt	gtgaatgtag	gttatcatta	540
ataaaacatt	aaccccgatc	tactacaaaa	aaaanacaac	caac		584

<210> 22

<211> 1841

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 410626.2

<400> 22

tcgcgaccac	gcgcccggca	caacaccacg	gggacattat	gcgtgattac	tgacaggcac	60
cagctgtctgc	cgccacagcc	gtctcaaacg	cactatgttg	actctccgat	ctagaggcag	120
attcctgact	aatcccagag	ggctggccca	gcctgtgtct	cccgggctgc	taggaagcga	180
tgaccactct	tgtagccca	agttgaagaa	agccgggctg	tgccctggag	ccgagagagg	240
cggtaatatt	tagaagctgc	acaggagagg	aacatgaact	gacgagtaaa	catgtatgga	300
aattattctc	acttcatgaa	gtttcccgca	ggctatggag	gctcccctgg	ccacactggc	360
tctacatcca	tgagccatc	agcagccttg	tcacacaggga	agccaatgga	cagccacccc	420
agctacacag	atacccagc	gagtgcccca	cggactctga	gtgcagtggg	gacccccctc	480
aatgccctgg	gctctccata	tcgagtcctc	acctctgcca	tgggcccacc	ctcaggagca	540
cttgcagcgc	ctccaggaat	caacttggtt	gccccaccca	gctctcagct	aaatgtggtc	600
aacagtgtca	gcagttcaga	ggacatcaag	cccttaccag	ggcttcccgg	gatttggaac	660
atgaactacc	catccaccag	ccccggatct	ctgggttaaac	acatctgtgc	catctgtgga	720
gacagatcct	caggaaagca	ctacggggta	tacagtgttg	aaggctgcaa	agggttcttc	780
aagaggacga	taagggaagg	cctcatctac	acgtgtggg	ataataaaga	ctgcctcatt	840
gacaagcgtc	agcgcaaccg	ctgccagtac	tgctcgctatc	agaagtgcct	tgctcatggc	900
atgaagaggg	aagctgtgca	agaagaaaga	cagaggagcc	gagagcgagc	tgagagttag	960
gcagaatgtg	ctaccagtgg	tcatgaagac	atgcctgttg	agaggattct	agaagctgaa	1020
cttgcctgtg	aaccaagac	agaatcctat	ggtgacatga	atatggagaa	ctcgacaaat	1080
gaccctgtta	ccaacatatg	tcatgctgct	gacaagcagc	ttttcacctc	cgttgaatgg	1140
gccaaagcgt	ttccocactt	ctctgacctc	accttgaggg	accaggtcct	tttgcttcgg	1200
gcagggtgga	atgaattgct	gattgacctc	ttctcccacc	gctcagtttc	cgtgcaggat	1260
ggcatccttc	tgggccaggg	tttacatgtc	caccggagca	gtgcccacag	tgctgggggtc	1320
ggctccatct	ttgacagagt	tctaactgag	ctgggtttcca	aaatgaaaga	catgcagatg	1380
gacaagtogg	aactgggatg	cctgcgagcc	attgtactct	ttaaccacga	tgccaagggc	1440
ctgtccaacc	cctctgaggt	ggagactctg	cgagagaagg	tttatgccac	ccttgaggcc	1500
tacaccaagc	agaagtatcc	ggaacagcca	ggcagggttg	ccaagctgct	gctgcgcctc	1560
ccagctctgc	gttccattgg	cttgaaatgc	ctggagcacc	tcttcttctt	caagctcatc	1620
ggggacaccc	ccattgacac	cttctctcatg	gagatgttgg	agaccccgct	gcagatcacc	1680
tgagccccac	cagccacagc	ctccccagcc	aggatgaccc	ctgggcagggt	gtgtgtggac	1740
ccccacctg	cactttctc	cacctccac	cctgaccccc	ttgctgtccc	caaaatgtga	1800
tgcttataat	aaagaaaacc	tttctacaaa	aaaaaaaaaa	a		1841

<210> 23

<211> 1260

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 234480.6

<400> 23
gcactttatg cttccccaga ggtgactaaa ctctgatcat tgccaatggg caggcactcc 60
ccaaatgtcc aaggacaaca aagataccca gagtgtcttt catagctacc aatgattaaa 120
tagcaagtat tgcattcctg ggcatttgcta actagtgaag tataccagat ggaaatgtct 180
tcgaagctgt cccttttaaaa ctcgagcaag ctaccaggca aactccgcct ccaggagggt 240
tccttattaa ataggagcca actggctggg tcggggctca ataccccaag caatacctgc 300
aactgaggat tcttccggg gagaccgcag cccatcgga tgggctcaag agtttgtgaa 360
ctgcaaaatc cagcctggga aggtggttgt gttcatcaag cccacctgcc ccgtactgca 420
ggagggccca agagatcctc agtcaattgc ccatcaaaca agggcttctg gaatttgtcg 480
atatcacagc caccaaccac actaacgaga ttcaagatta ttgcaacag ctcacgggag 540
caagaacggg gcctcgagtc tttatcggtt aagattgtat aggcggatgc agtgatctag 600
tctctttgca acagagtggg gaactgctga cgcggctaaa gcagattgga gctctgcagt 660
aaccacagat ctcataggaa atgttcaaca attctgtgaa aggtcacagg acccaattgg 720
agaaatcata tgaaaagcat agttggctct ggtgtcatat ggatcagagg cacaagtgca 780
gaggctgtgg tcatgcggaa cactctgtta ttttaagatgg ctatccagat aatcctgaac 840
actgtgtatt tattttatct agactaccag caaagattaa agcatgaaat gtaaaacatc 900
tgataaaact tacagcccc tacaccaaga gtgtatctgt gaaagagctc ctacactttg 960
aaaacttaag aatcccttat catgaagttt gcctgttcta gaattgtaag attgttaatt 1020
tccttcaatc tctagtgcga cactttgaat tcttttctaa taaaaaaaac ctatagatga 1080
ttcagtgatt tttgtccaat tcatttgcac gttctcaaga cattaaggaa tgttatgcga 1140
aatacactaa cttaaaactg tgtttatatt tggccctgcc attataaata aagacacgtg 1200
ctgctgtcac tcactgagta caaatggctg atataatctt gaagtttcat ataaacatga 1260

<210> 24
<211> 2400
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 253542.2

<220>
<221> unsure
<222> 2350, 2357
<223> a, t, c, g, or other

<400> 24
tccgtcggcg ccgcagcccc gggggtegcc ctcccgtgcc tcgcccggcg acaccctggc 60
cgtggacacc ctggccgtgg gaccccgccg ggcgcggcgc gggcgctcg cggcgccggc 120
ggcggcatga aggtcacgtc gctcgacggc ggcacagtc gcaagatgt cgcgaaggag 180
gcccggcgcg cgtcgtgggt gctcgactgc cggccctatc tggccttcgc tgccctgaac 240
gtgcgcggtc cgtcaacgt caacctcaac tcgggtggtg tcggcggggc cggggcgggc 300
gcgggtgctg cgcgtacgt gctgcccagc gaggcggcgc gcgcgcggct cctgcaggag 360
ggcggcgggc gcgtcgggc cgtgggtggt ctggaccagg gcagccgcca ctggcagaag 420
ctgcgagagg agagcgctt tgtcgtcctc acctcgctac tcgcttgctt accgcggcgc 480
ccgcgggtct acttctctaa agggggatat gagactttct actcggaata tcctgagtgt 540
tgctgtgatg taaaaccat ttcacaagag aagattgaga gtgagagag cctcatcagc 600
cagtgtggaa aaccagtggg aaatgtcagc tacaggccag cttatgacca ggggtggcca 660
gttgaaatcc ttcccttctc ctaccttgga agtgcctacc atgcatccaa gtgcgagttc 720
ctcgccaact tgcacatcac agccctgctg aatgtctccc gacggacctc cgaggcctgc 780
atgaccaccc tacactacaa atggatccct gtggaagaca gccacacggc tgacattagc 840
tcccactttc aagaagcaat agacttcatt gactgtgtca gggaaaagg aggcaagggtc 900
ctggtccact gtgaggctgg gatctcccggt tcacccacca tctgcatggc ttaccttatg 960
aagaccaagc agttccgct catggggcag ttcgattaca tcaagcagag gaggagcatg 1020
gtctcgccca actttggctt catggggcag ctctgcagt acgaatctga gatcctgccc 1080
tccacgccc accccagcc tccctcctgc caaggggagg cagcaggctc ttcactgata 1140
ggccatttgc agacactgag ccctgacatg cagggtgcct actgcacatt cctgtcctcg 1200
gtgctggcac cgggtgctac ccaactcaaca gtctcagagc tcagcagaag cctgtgggca 1260
acggccacat cctgctaaaa ctgggatgga ggaatcggcc cagccccaag agcaactgtg 1320

```

atTTTTgttt ttaagactca tggacatttc atacctgtgc aatactgaag acctcattct 1380
gtcatgtctgc cccagtgcga tagtgagtgg tcaccaggct tgcaaatgaa cttcagacgg 1440
acctcagggg aggttctcgg gactgaagga aggccaaagg attacgggag cacagcatgt 1500
gctgactact gtacttccag acccctgcc tcttgggact gccagtcct tgcacctcag 1560
agttcgcttt ttcatTTTcaa gcataaggca ataaatacct gcagcaacgt gggagaaaaga 1620
agttgctgga ccaggagaaa aggcagttat gaagccaatt gcattttgaa ggaagcacia 1680
tttccacctt atTTTTtgaa ctttggcagt ttcaatgtct gtctctgttg cttcggggca 1740
taagctgac accgtctagt tgggaaagtc accctacagg gtttgtaggg acatgatcag 1800
catctgatt tgaacctga aatgttgtgt agacacctc ttgggtcaa tgaggtagtt 1860
ggttgaagta gcaagatgtt ggcttttctg gattttttt gccatgggtt cttcactgac 1920
cttggacttt ggcatgattc ttagtcaatc ttgaactgt ctcattccac ctcttctcag 1980
agcaactctt cctttgggaa aagagttctt cagatcatag accaaaaaag tcataccttc 2040
gaggtggtag cagtgaattc caggaggaga aggtacttg ctaggtatcc tgggtcagt 2100
gcgggtgcaa ctggtttctt cagctgcctg tccttctgtg tgcttatgtc tcttgtgaca 2160
attgttttcc tccctgcccc tggaggttgt cttcaagctg tggacttctg ggatttgcag 2220
atTTTgaac gtggtactac ttttttttct ttttgtctg ttagttattt ctccagggga 2280
aaaggcaata atTTTctaag acccgtgtga atgtgaagaa aagcagtatg ttactgggtg 2340
ttgtgttgn tcttgnctt tatagtgtaa aataaaaata gtgaaaggag aaaagcaaaa 2400

```

<210> 25

<211> 872

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 234202.24

<220>

<221> unsure

<222> 732, 745, 758, 800, 821, 826, 830, 850-851, 854-855

<223> a, t, c, g, or other

<400> 25

```

cgcgccaca gtccctgcat tgcgcgcgac cggcgggcgg gacaggcttg ctgcttctc 60
ctcctcgcc tcaccattcc agacaaaaat tgaaaaaatg gttgacctca cccaggtaat 120
gggatgatga agtattcatg gcttttgcac cctatgcaac aattattctt tcaaaaatga 180
tgcttatgag tactgcaact gcattctata gattgacaag aaaggttttg ccaatccaga 240
agactgtgta gcatttggca aaggagaaaa tgccaagaag tatcttcgaa cagatgacag 300
agtgaacgt gtacgcagag ccacctgaa tgaccttgaa aatattatc catttcttg 360
aattggctc ctgtattcct tgagtgggcc cgacctctc acagccatcc tgcacttcag 420
actatttgtc ggagcacgga tctaccacac cattgcatat ttgacacccc tccccagcc 480
aaatagagct ttgagttttt ttgttggata tggagtact ctttccatgg cttacagggt 540
gctgaaaagt aaattgtacc tgtaaaagaa atcatacaac tcagcatcca gttggctttt 600
taagaattct gtacttccaa tttataatga atactttctt agattttagg taggagggga 660
gcagaggaat tatgaactgg ggtaaaccca tttgaatatt agcatgcaa tatcctgtat 720
tcttgtttta cnttggatt agaantttaa catagtantt cttaagtctt tgtctgattt 780
ttaaagtact ttcttataa ttggatcagt tatgattgta ncatcncacn acaccactt 840
tgaactatan nagnntgacg atgagaacct ta

```

<210> 26

<211> 7754

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 253946.4

<220>

<221> unsure

<222> 3947-3985

<223> a, t, c, g, or other

<400> 26

```

gcggagccgg ggcgagcagc caaaaggccc gcggagtgcg gctgggccgc cccggcgag 60
ctgaaccggg ggccgcgcct gccaggccga cgggtctggc ccagcctggc gccagggggt 120

```

tcgtgcgctg	tggagacgcg	gaggggtcgag	gcgggcgcggc	ctgagtga	cccaatggaa	180
aaagcatgac	atrtagaagt	agaagactta	gcttcaaate	cctactcctt	cacttactaa	240
ttttgtgatt	tggaaatata	cgcgcaagat	ggttgacgtt	cagacttggc	tagtgcaagc	300
cttggttatt	ttcctcacca	ctgaactctac	aggatgaact	ctagatccat	gtggttatat	360
cagtcctgaa	tctccagttg	tacaacttca	ttctaatttc	actgcagttt	gtgtgctaaa	420
ggaaaaatgt	atggattatt	ttcatgtaaa	tgctaattac	attgtctgga	aaacaaacca	480
ttttactatt	cctaaggagc	aataactat	cataaacaga	acagcatcca	gtgtcacctt	540
tacagatata	gcttcattaa	atattcagct	cacttgcaac	attcttacct	tgggacagct	600
tgaacagaat	gtttatggaa	tcacaataat	ttcaggcttg	cctccagaaa	aacctaaaaa	660
tttgagttgc	attgtgaacg	aggggaagaa	aatgaggtgt	gagtgggatg	gtggaaggga	720
aacacacttg	gagacaaact	tcactttaaa	atctgaatgg	gcaacacaca	agtttgctga	780
ttgcaaagca	aaacgtgaca	ccccacctc	atgcactgtt	gattattcta	ctgtgtattt	840
tgtcaacatt	gaagctctgg	tagaagcaga	gaatgcctt	gggaagggtt	catcagatca	900
tatcaatttt	gatacctgtat	ataaagtga	gccaatccg	ccacataatt	tatcagtgat	960
caactcagag	gaactgtcta	gtatcttaaa	attgacatgg	accaacccaa	gtattaagag	1020
tgttataata	ctaaaatata	acattcaata	taggaccaa	gatgcctcaa	cttgaggcca	1080
gattctcct	gaagacacag	catccacccg	atcttcattc	actgtccaag	accttaaacc	1140
ttttacagaa	tattgtgttt	ggattcgctg	tattgaaggaa	gatggtaagg	gatactggag	1200
tgactggagt	gaagaagcaa	gtgggatcac	ctatgaagat	agaccatcta	aagcaccaag	1260
tttctggtat	aaaatagatc	catcccatac	tcaaggctac	agaactgtac	aactcgtgtg	1320
gaagacattg	cctccttttg	aagccaatgg	aaaaatcttg	gattatgaag	tgactctcac	1380
aagatggaaa	tcacattttac	aaaattcacac	agtaaatgac	acaaaactga	cagtaaatct	1440
cacaaatgat	cgctatctag	caaccctaac	agtaagaaat	cttggttgga	aatcagatgc	1500
agctgtttta	actatccctg	cctgtgactt	tcaagctact	cacctgttaa	tggatcttaa	1560
agcattcccc	aaagataaca	tgctttgggt	ggaatggact	actccaaggg	aatctgtaaa	1620
gaaatatata	cttgagttgt	gtgtgttatc	agataaagca	ccctgtatca	cagactggga	1680
acaagaagat	ggtacccgtg	atcgcaacct	tttaagaggg	aacttagcag	agagcaaatg	1740
ctatttgata	acagttactc	cagtatatgc	tgatggacca	ggaagccctg	aatccataaa	1800
ggcatacctt	aaacaagctc	caccttccaa	aggacctact	gttcggacaa	aaaaagtagg	1860
gaaaaacgaa	gctgtcttag	agtgggacca	acttctctgt	gatgttcaga	atggatttat	1920
cagaaattat	actatatttt	atagaacct	cattggaaat	gaaactgctg	tgaatgtgga	1980
ttcttccac	acagaatata	cattgtcctc	tttgactagt	gacacattgt	acatggtacg	2040
aatggcagca	tacacagatg	aaggtgggaa	ggatggtcca	gaattcactt	ttactacccc	2100
aaagtttgct	caaggagaaa	ttgaagccat	agtcgtgcct	gtttgcttag	cattcctatt	2160
ctggccta	ctgggagctg	tgctctgctt	taataagcga	gacctaat	aaaaacacat	2220
ctggccta	gttcagatc	cttcaaagag	tcataattgc	cagtggtcac	ctcaactcc	2280
tccaaggcac	aatttttaatt	caaagatca	aatgtattca	gatggcaatt	tcactgatgt	2340
aagtgtgtg	gaaatagaag	caaagtacaa	aaagcctttt	ccagaagatc	tgaaatcatt	2400
ggacgtgtt	aaaaaggaaa	aaattaatac	tgaaggacac	agcagtggta	ttgggggggtc	2460
ttcatgcatg	tcactctcta	ggccaagcat	ttctagcagt	gatgaaaatg	aatcttcaca	2520
aaacacttgc	agcactgtcc	agtattctac	cgtggtacac	agtggctaca	gacaccaagt	2580
tccgtcagtc	caagtcttct	caagatccga	gtctaccacg	cccttggttag	attcagagga	2640
gcgccagaa	gatctacaat	tagtagatca	tgtagatggc	ggtgatggta	ttttgcccat	2700
gcaacagtac	ttcaaacaga	actgcagtc	gcataatcc	agtcacagata	tttcacattt	2760
tgaaaggta	aagcaagttt	catcagtc	tgagggaagat	tttggttagac	ttaaacagca	2820
gatttcagat	catatttcac	aatcctgtgg	atctgggcaa	atgaaaatgt	ttcaggaagt	2880
ttctgcagca	gatgcttttg	gtccagggtac	tgagggacaa	gtagaaagat	ttgaaacagt	2940
tggtcaggg	gctgcagctg	atgaaggcat	gcctaaaagt	tacttaccac	agactgtacg	3000
gcaaggcggc	tacatgcctc	agtgaaggac	tagtagttcc	tgctacaact	tcagcagtac	3060
ctataaagta	aagctaaaat	gatttttatct	gtgaattcag	attttaaaaa	gtcttcactc	3120
tctgaagatg	atcattttgc	cttaaggaca	aaaatgaact	gaagtttcac	atgagctatt	3180
tccattccag	aatatctggg	attctacttt	aagcactaca	taaactgact	ttatcctcag	3240
actagctgaa	tgattttgtg	ctgttttcagg	atgtttgcac	tgaagaaaaa	cagaaagctt	3300
atctgaaatt	tataaaactt	ttgtttttgc	tacatagaaa	acagaaggta	tttgaataat	3360
aagcagtgat	atgcttagtg	agcacagcta	tactgatttt	gattagaata	gtcatcagag	3420
tggtctaggg	acagtttaata	taaaagagga	gcaaggtgta	gaccatcatc	tacttctgct	3480
aaaataactt	aaaaagaggt	ccataaggca	tactacatg	agcccagctt	ttgtaactctg	3540
acaaaaaaat	gaggagcagc	ttcgtgtata	tcagtgtaca	cggtattcct	taggtccctt	3600
ccattggtag	tgatgctgcg	agttattact	ggagaaaagg	aattctagag	ctttaacttg	3660
gcagattaaa	agtactcatt	ttttattcat	caataattag	taatctcact	agttttcaaa	3720
aatttgcata	ttattgacaa	cctctttgaa	gatgcatttc	acaaaactcaa	cagagtggca	3780
tgataagagc	tagggatccc	ccaaactatc	tcaagcatct	aaaaaattgc	catttttaaa	3840
ggcttaaaat	gtagtagtaa	aggggaaaac	agggaagtagt	agtaaagggg	aaaaaaaacc	3900
aataaagcat	ctaaaaaatt	ggcatgttaa	aaggcttaaa	ttgctannnn	nnnnnnnnnn	3960
nnnnnnnnnn	nnnnnnnnnn	nnnnncacac	acataatcatt	gacttttctt	aagacttcag	4020
agtactgggt	agatgaacac	tttatcagct	atatactctt	agcttaaat	tgttttgagt	4080
atttttttta	tttttaataa	agtaggcaaa	gatttaaat	tttttatatt	tagtaaatgt	4140

ttgaggcaca	ctaagacaac	ttgggcaata	tttgccaaaa	caaaacagaa	ccccaaaaa	4200
tgtacatctt	gttccttagca	aatatcatta	ttgtagagac	acttaataaa	gagatgggtat	4260
tttaaatgtct	gcagttctga	ggtaggggtgg	aacttagttc	tacattgtga	tttaggaatt	4320
tttaaaacct	tttttcttca	agggagaagt	gacccaggcc	tcgagtttag	tgctaaagcc	4380
gctagtgtac	ttatgctgtc	ccctaaccac	cacgtgcgat	atggaagcag	atgctaaata	4440
taggggtttt	cttagaaaagt	aagaggaaat	tagcaagcgt	tattagtgat	tgactactgc	4500
tatcaagtga	attcaaagga	aacagggttt	tatgccatat	ttaagttaca	gaaaccaggc	4560
atgcttagaa	tagtttcttag	aggttattgg	agaatagaaa	gctaagaaaa	cttgggtatac	4620
atttacaatg	gaaatataat	tacacttttt	actctcagaa	tattgttcac	attagacttc	4680
ctgtttatct	tttatattct	tgcatttata	taatgcctca	tcctttcaaa	gttctttcac	4740
atatttatatg	atcttcttta	tgaaaaaaat	agatgtttca	ttctgatata	ttcagtttcc	4800
cacttttaggc	aaaagtagat	taatagaatg	acgaattcaa	agtagatgag	gaaaaatcagg	4860
cacagagaag	taaaggtagg	gatatagccca	aattttacaca	acaagataat	gacatctcca	4920
gcttttaagt	tgatcatcaa	aggctgggct	ggatttgtct	tgctgtatgt	gtcaggaaat	4980
ttatacctat	tacattttcc	attttctcaa	aattttaagtc	acatgactaa	tatttagctg	5040
caactttcct	catacaaat	agtgtcatga	agaatgttgt	agtgtgaagt	ttgtacattt	5100
cagggctaga	gaactcttaa	gaactcttaa	tgacaggaa	tgagaatgga	ggatcattga	5160
aggcatgat	ataaacaat	ttgcatgttg	aagctctgat	aaaacatggt	acagtgagtg	5220
aatatacccc	catccccaag	aacactttat	acataataaa	tggatatatg	attactgtgc	5280
aaaaattcat	tctggaaatg	aacatatatt	tgagcactaa	tatgtaatgt	acacctgccc	5340
taaggagaaa	ataaattata	aaacttttta	cattcaaaat	tactttccca	agcatgtctt	5400
agaataatct	atgtgttgat	gcatgtaaat	tgtaacttag	gtaggcaaag	aaatctggtt	5460
atttatgtaa	aaactagtct	aataaagtta	gttagtggct	ttatcacttt	aaatctttag	5520
tgctccaaaag	tggtgtttta	agtaatagca	catcagaaaa	ccttgtctgg	acaaaactag	5580
ttcactcact	gcttctgcac	ctgcagttgc	tccttttagg	gttataaaat	aatgacccaa	5640
atgttcatatg	tggttagatt	ataacttgct	agttactgat	gtctgtggta	tcctaccctc	5700
atctctgaaa	gggataatac	tgaataatta	ttagaaaact	ataaaaactc	acactttgtc	5760
ccattaaaac	ctaaaatttt	aatcttgctc	ttttttacta	tggatcagtc	ggcactcggg	5820
aacagcagca	aggaaaaaaa	gcaaaatttca	ttcacatggt	ctgtgttcat	acctcttctc	5880
tacctaatgt	ttcatttaaa	tttcagcctt	attccttgat	aagggatttt	accacatgaa	5940
gtcatccagt	gaccctagct	cttatttgga	agttagtggg	gtatacttag	aaatgttaca	6000
actttaaaat	gttacaaaac	attcattaaa	gctcatattt	aaagtagagc	atctagtttg	6060
agaaatagaa	atcaattatt	aaagatgtct	tttttctacc	catttaacta	gttaaaacca	6120
tgacatgtaa	atgtagaagt	agaataatca	tagaattccc	taaaatattt	ctgttttacta	6180
acatatattg	accaagtaca	tcaagcagga	gagatcttcc	ttcattctgt	tatagttccac	6240
atcattctaa	ttttgctcag	ttgttattaa	gagcatattc	ctaaaccata	cacttttgtt	6300
tcaataaagt	tttattttgt	tgagatgaat	aaaataacaa	agttataagc	tgcataagac	6360
aaaagttcaa	ttgttcaaaa	aaaatttact	gggatagctt	tctattacag	gtattgttag	6420
atttatattg	gctgataaga	ttactttcta	aaaaatttgt	acttttctgt	aaattaaaag	6480
aatatggagt	cataaaaatgg	caagtgtttt	aggattagcc	taaaattgga	cattgtcatt	6540
gatttcaaag	aagggtatgaa	ctagcagttc	tacagcctaa	ttcttctttg	gactgggtcct	6600
tggcagcagt	tccttttctag	actcgataaa	cagaattcag	atgatgtaag	tcaaaacaaa	6660
actttacaaa	gccaagcgta	ttatcttttg	cattaaccta	tttttttcca	tcatacatgc	6720
tactagtatg	tgatattctc	tgatattctc	atatacatgt	cattaaaaat	taaaagggtg	6780
cagctcaggg	tgagctcttc	tggtgtcat	ttgttcttaa	atttttaagg	gctttttctc	6840
agtcaatagt	ttgtacaaac	tggttagttt	aacttcatta	cccatttcat	taaagttgat	6900
gggtcgtgtg	atgagatgca	tttaaggcgg	atagtgatag	atgttttttt	tatttcttga	6960
acacaggctt	tgtctgaatg	atgttctttt	atctcttgaa	cacaagcttt	gaatgataac	7020
tacaggtttt	aagtgtctgt	acattaatac	cataatgtga	tgtgttagaa	acaaagggat	7080
atttcaaagg	tagatatttg	aaaattctct	agtctcaata	tgtatgtgta	ttgaatatac	7140
tctaaaaata	aatgtgcaat	ttgctagtag	gacaatgcag	tgactgacta	gcattaggta	7200
tgtttctttt	atattcttagc	tatgtcccac	ttcttcttaa	gtgcaatcct	ttcatgttca	7260
cttgctgttt	taccccatct	actctaactt	catttggaag	gcttgtctag	agtatagcat	7320
gtatttttac	ctttgcagtg	aattgcatgt	gctaattgta	accacagcta	tttttatgtt	7380
gacataactc	caaagtgtat	attaaatgtt	ctattatata	ttagctctaa	tcctttaagt	7440
aaattttaag	aaataaatac	ttgttcaaat	ttttttctgt	tatgtggtta	ctatcatctg	7500
actatgcata	tttgtaacag	catttatcat	tagtgggtgt	agctaaataa	gcactcttagt	7560
gtaaatgaga	tgcttcgtgt	gggttttgtg	acatttttaa	tgacataatg	gaatgtgatt	7620
taaaagaaaa	ccagtacact	atcttggtct	taataacata	gaatggagat	ggcaaattta	7680
tccactagtt	ttccagattt	actatttaat	agctgaggtc	tgaaatcgta	gcactcctcc	7740
tcctagtggg	catt					7754

<210> 27
 <211> 799
 <212> DNA
 <213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 348801.1

<220>
<221> unsure
<222> 761
<223> a, t, c, g, or other

<400> 27
ctgcagactt gtaggcagca actcaccctc actcagaggt cttctgggtc tggaaacaac 60
tctagctcag ccttctccac catgagcctc agacttgata ccacccttc ctgtaacagt 120
gcgagaccac ttcattgcctt gcaggtgctg ctgcttctgt cattgctgct gactgctctg 180
gcttctctca ccaaaggaca aactaagaga aacttgggcg aaaggcaaag aggaaagtct 240
agacagtgcac ttgtatgctg aactccgctg catgtgtata aagacaacct ctggaattca 300
tccccaaaac atccaaagtt tgggaagtgc cgggaaagga acccattgca accaagtcga 360
agtgatagcc acactgaagg atgggaggaa aatctgcctg gaccagatg ctcccagaat 420
caagaaaatt gtacagaaaa aattggcagg tgatgaatct gctgattaat ttgttctgtt 480
tctgccaacac ttctttaact cccaggaagg gtagaatttt gaaaccttga ttttctagag 540
ttctcattta ttcaggatac ctattcttac tgtattaaaa tttggatatg tgtttcattc 600
tgtctcaaaa atcacatttt attctgagaa ggttgggttaa aagatggcag aaagaagatg 660
aaaataaata agcctgggtt caaccttcta attcttgctt aaacattgga ctgtactttg 720
catttttttc tttaaaaatt tctattctaa cacaacttgg ntgatttttc tggctacttt 780
atggtattag acatctcat 799

<210> 28
<211> 4151
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 980611.1

<220>
<221> unsure
<222> 1474, 2019-2064, 2651-2685
<223> a, t, c, g, or other

<400> 28
ttcaggccca gtccctgacc tgtgtctctg ctctctgctt taccctcctt gccccactcc 60
caggccatct ctgccggacg cggccacacag acctggtgtt tgttgtcgac agctctcgca 120
gcgttcggcc tgttgaattt gagaaagtga aggtattcct gtcccaggtc atcgagtgcg 180
tggacgtggg gcccaatgcc acccgggtgg gcattggtcaa ctatgccagc accgtgaagc 240
aggagtcttc gctgcgggct catgtctcca aggcgcact gctgcaggct gtgcgcgcta 300
tccagccgct gtccacaggc accatgaccg gcctggccat ccagttcgct atcaccaaag 360
ccttcggcga tgcagagggg ggtcggtcca ggtcccctga catcagcaag gtacgtgcac 420
gccaccctgc taggatgctg ctgtttggag gctcccgtc ggagttatga gctttgctg 480
cagacacttt gattcccatg atgcccgtg aggtggccat ttcatagctt agagacccca 540
atttgcgcat ggggcatcac atccctccgg gcattctcaga gctgcctgcc cgagggaggc 600
gaagcagatg gaaagccccc cagccacgct tctcagtcag aggaaacggg tctcctcttc 660
ggccagccgg gtccctcttc cccgggtgcc gcctggctgt ggcaccggc agtcctccc 720
cctctccggg cctcagcctc ctctcctgga cagtcccgtg ggcttccggg agcccggtgt 780
cacaccgccc cgcgtgtcgc aggtgggtcat cgtggtgaca gacgggaggc cccaggacag 840
cgtgcaggac gtgtctgcgc gggcccgggc cagcggcgct gagctgttcg ccatcgaggt 900
gggcagcgtg gacaaggcca cgctgcggca gatcgccagc gagccgcagg acgaacacgt 960
cgattacgtg gagagctaca gcgtcatcga gaagctgtcc aggaagtcc agggggcctt 1020
ctgcgtgggt tcagacctgt gcgccacagg ggaccatgac tgtgagcagg tgtgcatcag 1080
ctccccgggt tctacacct gcgcctgcc aagggcttc actctgaaca gcgacggcaa 1140
gacctgcaat gtctgcagtg gtgggtgggt cagctcgcc actgacctgg tcttctcat 1200
tgacggatcc aagagtgtga ggccagagaa ccttgagctg gtgaagaagt tcatcagtca 1260
gatcgtggat acgctggacg tgtcagacaa gctggcccag gtggggctgg tgcagtactc 1320
aagctctgtg cgcaggagt tccccctggg tcgcttccac accaagaagg acatcaaggc 1380
ggctgtgcgg aatatgtcct acatggagaa gggcacatg accggggctg ctctcaagta 1440
cctcattgac aattccttca ctgtgtccag tggngctagg cccggggccc agaagggtgg 1500
cattctcttc actgatggc ggagccagga ctacattaat gatgctgcca agaaggccaa 1560
agacctcggc tttaagatgt ttgctgtggg tgtgggcaat gccgtggagg atgagctgag 1620


```

ggaaatagcc tcagagcctg tggcagagca ctactttctac acggctgact tcaagaccat 1680
caaccagata ggcaagaagt tgcagaagaa gatctgtgtg gaggaagacc cgtgtgcctg 1740
cgagtcctcg gtgaaattcc aagccaaagt ggaggggctg ctgcaggccc tgaccaggaa 1800
actggaagct gtgagtaagc ggctggccat cctggagAAC acagttgtct aaggctgcct 1860
gtcaccactg tggcctctcc aagcgtcctg cactgtctcg ccgtagcttt accattttag 1920
tgagggaagc cagcccgagg gtgggagggg gtgtgtctgg gtgtgcctat tgagagcgtg 1980
taatggcgtt tgggagctcg tgtgtgtatg tgtgcgtgnn nnnnnnnnnn nnnnnnnnnn 2040
nnnnnnnnnn nnnnnnnnnn nnnncctgag ggtgggcatg agtcttgcca gaatgtgagt 2100
gtgagagtga taatgcaggg gtgagtgatg gagggactgc gtttgcatth ttataatcaa 2160
aagcttaata tattcccatc ttttttagtt aacctttct tgcactctgag tgctgtgaat 2220
ttctttactg atttctctat tctccggtga gaaacaatta aatgtgattt aacgtaagca 2280
gtgaatgggg ctagaggcag tgtggttatt tggggaccag ggaagaggat ggatgaagat 2340
gtggtgggga gggatggtg gaaggatggt aacagtggtg gtgacagtga tgacagtga 2400
cacaccaaaa ccagctggtg tttgtcctgc cttttcagtt acatatccat ttagttagc 2460
tcatttctact tccagtaacc ttaccagaa aagactcaaa ttatcccat tacaatggg 2520
aaagctgaga gtctaaatga tgaaatgact tgcctcagcag tgggtcgctg agagacagga 2580
cttgaatcta ggactgaaga acatcaaaag aaaaaggctt cagagaaaaa gggcaatgac 2640
accagatagg nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn aggtatcatg 2700
tacttacagg gcaatggcgg tgggggggat ggtgctgtat gagacagacg tagttctctg 2760
cctaagagac atacagttga gcagggtgct catgtcacc ccaccagcca gagggaccag 2820
ccagaggaaa agagagtggt tttaggtcgt accaggggtt tgtgcctct cttgatacct 2880
gggagccacg ggggtgagtg gtgtgtgaga tgggtggaa ggcctcagcc tgggcctggg 2940
ctgccctagg tgcctctccc ctcccgcctc caacatgccc tgttgaggtt ctgtttgttt 3000
cctgtgcaca ggcgcatca ccccaaccc aaagtcccca acgcagatgc agcagcccca 3060
cctcagagac tgcacaagag aaagactcct ggccccatgt tcccttctct cagccctatg 3120
tgggtctctg aggtcacacc ctgagatctc ggtcacctcc ccaggcccc tattggacca 3180
gtgctgctcc ggaatctcca tctctgtcct ctcagagggg gagctttggt gattttctga 3240
acctattctt gtttaatgga gcatttttag tgttactact agattcacac ttgagagcat 3300
gtctaaaagg cttttacaag aagctcagac cacaccgaaa gatcttctct ggaggcagtt 3360
caaagaggca gaataacaac acgaacggta cccaagagcc acatcagtac aacagcaca 3420
ctacacaagc gcgacttaac tggggcacag ccacctcgc cccatgacc tgactccacc 3480
tctacacag ttcaccaagc cctttttttt tgtctgtccc tggggcagca gtttttctgc 3540
tgtccaagga ggtccttga cacagccacc tgaaaagtta tgactctgct cattcttct 3600
tttttttgaa attatccact cccctttct cccacacag ggggggaggg ggagaggcag 3660
ccatgttgat atggactgaa aaggctcagc agtgtgtccc caaggaggag gagagggtca 3720
ttagcaaac ccattggctg ggagctggtg ggcagaagca acagatgtcc ctgatgagt 3780
gagtcagaga tggggtgga gccctgcctg ggaataggac ctcttcttc cctgccggtg 3840
ggtggagtag tggcaggacc ttgtcaccag gctctgatga aggcagggac cagcttcttg 3900
ggatctttta atcccaact ctgcccttc actctcgca gttctccca cggtactcc 3960
aggtcctctt gaaatccgtc ctctccatgg acttcccaca tccctctctg ctctaggttt 4020
gattaacaga aggttgtaaa tgaaaaccag catctcccta gggcagccat ggtctactga 4080
cagatggcaa gttactttgt aacctgtaat tttgtttttt tgaattttgt ataaataaac 4140
aggactaaac t 4151

```

<210> 29
 <211> 1747
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 283885.8

```

<400> 29
caaagaagca aaaggtgact ctgacagcgg cagaggccct aaagcttttt aagaaccagc 60
tgtctccata tgaacaaagt gaaatcctgg gctacgcgga gctgtggttc ctgggtcttg 120
aagccaagaa gctcgacacg gctcctgaga aatttagcaa gacgagtttt gatgatgac 180
atggcttcta tctgaaggtc ctgcatgac acattgccta ccgctatgaa gttctggaga 240
caatcgggaa ggggtccttt ggacagggtg ccaagtgcctt ggatcacaaa aacaatgagc 300
tgggtggcctt gaaaatcatc aggaacaaga agaggtttca ccagcaggcc ctgatggagc 360
tgaagatcct tgaagctctc acaaaagaaa cacctacaat gttgtgcata 420
tgaaggactt tttctacttt cgcaatcact tctgcatcac ctttgagctc ctgggaatca 480
acttgatga gttgatgaag aataacaact ttcaaggctt cagtctgtcc atagtccggc 540
gcttcaactc ctctgttttg aagtgccttc agatgccttc ggtagagaaa atcattcact 600
gtgatctcaa gcccaaaaat atagtctat accaaaaggg ccaagcctct gttaaagtca 660
ttgacttttg atcagctgt tatgaacacc agaaagtata cacgtacatc caaagccggg 720
tctaccgatc ccagaagtg atcctgggcc acccacacc ctacgacgtg gccattgaca 780

```

tgtggagcct	gggctgcatc	acggcggagt	tgtacacggg	ctacccctg	ttccccgggg	840
agaatgaggt	ggagcagctg	gcctgcatca	tggaggtgct	gggtctgccg	ccagctggct	900
tcattcagac	agcctccagg	agacagacat	tctttgatcc	caaagggttt	cctaaaaata	960
taaccaacaa	cagggggaaa	aaaagatacc	cagattccaa	ggacctcacg	atgggtgctga	1020
aaacctatga	caccagcttc	ctggactttc	tcagaagggtg	tttggtagtg	gaaccttctc	1080
ttcgcatgac	cccggaccag	gccctcaagc	atgcttggat	tcatcagtct	cggaacctca	1140
agccacagcc	caggccccag	accctgagga	aatccaattc	ctttttcccc	tctgagacaa	1200
ggaaggacaa	ggttcaaggc	tgtcatcact	cgagcagaaa	agatgagatc	accaaagaga	1260
ctacagagaa	aacaaaagat	agccccacga	agcatgttca	gcattcagggt	gatcagcagg	1320
actgtctcca	gcacggagct	gacactgttc	agctgcctca	actggtagac	gctcccaaga	1380
agtacaggag	agctgtcggg	gcggaggtgt	ccatgacctc	cccaggacag	agcaaaaact	1440
tctccctcaa	gaacacaaac	gttttaccct	ctattgtatg	acctttgctg	agggtatgtc	1500
ctgtctcttt	ccaccagtga	tttgtattaa	gcagcacttt	atattgtaca	atacttcaga	1560
ctgttttttt	taaatacata	aaactttatg	ttaaaaaact	ctattaacat	ggccaattgg	1620
catgactcct	cttatgaggg	atgggggagg	atgtccttgc	acttaaactc	attccatatg	1680
catctgtgtg	tgtagagggg	gcgggtagtt	ttgaactctc	agtgttacag	catcattaat	1740
ggaactc						1747

<210> 30

<211> 1964

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 348196.33

<400> 30

cettaagggg	cgggccgggg	cggggctccg	ctgccccttc	ccagaggccg	cgctctgtgc	60
tgagcagatg	cagtagccga	aactgcgcgg	aggcacagag	gccggggaga	gcgttctggg	120
tccgagggtc	caggtagggg	ttgagccacc	atctgaccgc	aagctgcgtc	gtgtcgcggg	180
ttctgcaggc	accatgagcc	aggacaccga	ggtggatatg	aaggagggtg	agctgaatga	240
gttagagccc	gagaagcagc	cgatgaacgc	ggcgtctggg	gcggccatgt	ccctggcggg	300
agccgagaag	aatggtctgg	tgaagatcaa	ggtggcggaa	gacgaggcgg	aggcggcagc	360
cgcggttaag	ttcacgggct	tgccaaggga	ggagctgctg	aaggtggcag	gcagccccgg	420
ctgggtacgc	accgctggg	cactgtctgt	gctcttctgg	ctcggtctgg	tcggcatgct	480
tgctggtgcc	gtggtcataa	tcgtgcgagc	gccgcgttgt	cgcgagctac	cggcgcagaa	540
gtggtggcac	acgggcgccc	tctaccgcct	cggcgacctt	caggccttcc	agggccacgg	600
cgcggtcaac	ctggcgggtc	tgaaggggcg	tctcgattac	ctgagctctc	tgaaggtgaa	660
gggccttggt	ctgggtccaa	ttcacaagaa	ccagaaggat	gatgtcgtct	agactgactt	720
gctgcagatc	gaccccaatt	ttggctccaa	ggaagatttt	gacagtctct	tgcaatcggc	780
taaaaaaaag	agcatccgtg	tcattcttga	ccttactccc	aactaccggg	gtgagaactc	840
gtggttctcc	actcaggttg	acactgtggc	caccaagggt	aaggatgtct	tggagttttg	900
gctgcaagct	ggcgtggatg	ggttccagggt	tcggggacata	gagaatctga	aggatgcata	960
ctcattcttg	gctgagtggc	aaaatatcac	caagggtctc	agtgaagaca	ggctcttgat	1020
tgcggggact	aactcctccg	accttcagca	gatcctgagc	ctactcgaat	ccaacaaaga	1080
cttgctgttg	actagctcat	acctgtctga	ttctggttct	actggggagc	atacaaaatc	1140
cctagtccca	cagtatttga	atgccactgg	caatcgctgg	tgcagctgga	gtttgtctca	1200
ggcaaggctc	ctgacttcc	tcttgccggc	tcaacttctc	cgactctacc	agctgatgct	1260
cttcaccctg	ccagggaacc	ctgttttcag	ctacggggat	gagattggcc	tggatgcagc	1320
tgccttctct	ggacagccta	tggaggctcc	agtcagtctg	tgggatgagt	ccagcttccc	1380
tgacatccca	gggctgtgaa	gtgccaacat	gactgtgaag	ggccagagtg	aagaccctgg	1440
ctccctctct	tccttgttcc	ggcggctgag	tgaccagcgg	agtaaggagc	gctccctact	1500
gcatggggac	ttccacgcgt	tctccgctgg	gcctggactc	ttctcctata	tccgccactg	1560
ggaccagaat	gagcgttttc	tggtagtgtc	taactttggg	gatgtggggc	tctcggctgg	1620
actgcaggcc	tccgacctgc	ctgccagcgc	cagcctggca	gccaaggctg	acctcctgct	1680
cagcaccagc	ccaggccgtg	aggagggtct	ccctcttgag	ctggaacgcc	tgaaactgga	1740
gcctcacgaa	gggctgctgc	tccgcttccc	ctacgcggcc	tgacttcagc	ctgacatgga	1800
cccactaccc	ttctcctttc	cttcccaggc	cctttggctt	ctgatttttt	ttctcttttt	1860
taaaacaaac	aaacaaactg	ttgcagatta	tgagtgaacc	cccaaatagg	gtgtttttctg	1920
ccttcaaata	aaagtcaacc	ctgcatggtg	aagtcttccc	tctg		1964

<210> 31

<211> 8734

<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 256009.4

<220>
<221> unsure
<222> 500
<223> a, t, c, g, or other

<400> 31
gggtgagtga agggacccca agtctcctct gctctcaact tggacacatc taagtttgc 60
gggggccttc atttctcagg accaaagggtg gaaggagggtg tgaaggaggg tcagattgga 120
ctccaggctc ctgggctgag tgtgtctggg cctcaagggtc acttggaag tggaatctgga 180
aaagtaacat tccctaaat gaagatcccc aaatttacct tctctggccg tgagctggtt 240
ggcagagaaa tgggggtgga tgtcacttcc ctaaagcaga ggccagcatc caagctggtg 300
ctggagacgg cgagtgggaa gagtctgaag tcaaactgaa aaagtccaag tttaaaatgc 360
ctttctgag tatttcactt cccaaagtgt ctatgcctga cgtggagcta aatttgaag 420
gtcccaaat caagatgcct gacatgaata tcaaagctcc caagatctcc atgcctgata 480
ttgacttaaa cttgaaagg cccaaagtga agggcgatgt ggatgtttct ctgccccaaa 540
tggaagggtga cctcaagggt ccagaagctg acatcaaggg ccccaaagtg gacattaatg 600
ctccagatgt tgatgttcaa ggcccagact ggcacctgaa gatgccccag gtgaaaatgc 660
ccaagttcag catgcctggc tcaaaggag agggcccaga tgtggatgtg aacctgcca 720
aggctgacct tgatgtctca ggacccaagg tggacattga tgttccagat gtgaatatcg 780
aaggcccaga gggaaagtgt aaagggtccca aattcaagat gcctgagatg aacatcaag 840
cccccaagat ctccatgcct gacattgatc ttaacctgaa aggacccaaa gtgaagggtg 900
atatggtagt gtctctgcca aaagtgtgaag gtgacatgca agttcctgac ttggatatta 960
aaggcccaa agtggatatt aatgcccag atgtggatgt tcgaggccca gactggcacc 1020
tgaagatgcc taagataaaa atgcccaga tcagcatgcc tggcttcaa ggagaagggtc 1080
cagaagtgga tgtgaacctg cccaaggctg accttgacgt ctcaggaccc aaggtggacg 1140
ttgatgttcc agatgtgaat attgaagggt cagatgcgaa actgaagggc cctaaattca 1200
agatgcccga gatgaacatc aaagccccc agatctccat gcctgacttt gatttgcatc 1260
tgaaaggccc taagggtgaa ggagatgtgg atgtttctct gcctaagatg gaaggatgatc 1320
taaaggcccc tgaagtgtac atcaagggtc ccaaagtgga cattgatgcc ccagatgtgg 1380
atgttcatgg ccagactgg cacctgaaga tgcccagggt gaaatgccc aaattcagca 1440
tgccaggatt taaaggagag ggcccagaag ggcctgaag tttgcccaga gctgacattg 1500
atgtctcagg acccaaagtg gacattgaca ctctgatat tgatattcat ggtccagaag 1560
ggaaactgaa gggccccc aaatctgaaag gtccaaagat gaagggcgac gtggacgttt 1680
ctatgcctga agttgacctg gacctcaagg gcctgaag tgcacatcaag ggccccaag 1740
tggaattgga tgtcccagat gtggacgttc aaggcccaga ctggcactta aaaaatgccc 1800
aagtgaatg gcccaagttc agcatgcctg gcttcaaagg agaggccca gatgtggatg 1860
tgaacctgcc caaggctgac cttgacgtct caggacccaa ggtggacatt gatgttctg 1920
atgtgaatat cgaagttcca gatgcgaaac taaagggccc ttaattcaag atgcctgaga 1980
tgaacatcaa agcccccag atctccatgc ctgactttga tttgcatctg aaagggtcca 2040
agggtgaagg tgatgtggat gtttcccttc ctaaagtgga aggtgacctc aagggcccag 2100
aagttgacat caagggtccc aaagtggaca tcgatgcccc tgatgtagat gttcatggcc 2160
cagactggca cctgaagatg cccaagggtg aaatgccc aaatcagcatg ccaggattca 2220
aaggagagg cccagatgtg gatgttacc cctctaaggc tgacattgag atttctggcc 2280
ccaaagtgga cattgatgcc cctgatgtca gtatcgaagg tccagatgca aaactcaagg 2340
gtccaaagt ccaagatgcca gagatgaaca tcaaggcccc caaaatctcc atgcctgaca 2400
ttgacttta cttgaagggt cccaaagtga aaggtgatgt ggatgtctct ctgccccaa 2460
tggaagggtg tctcaagggt cctgaaattg acataaaagg cccagtttg gacattgaca 2520
cacctgatgt caatattgaa ggtccggaag gaaaattgaa ggggcccaga tttaatgac 2580
ctgagatgaa catcaaagct cccaaaatct ctatgcctga ctttgatttg cacctgaaag 2640
gtcccaagg gtgaggtgat gtggatgttt cactacctaa ggtggaaagt gatctgaaag 2700
ggccagagg agacattgaa ggtcctgaag ggaagctcaa aggtcccaag tttaatgac 2760
ctgatgtaca tttcaaaag ccacaaatct ccattgagtga cattgatttg aatttgaag 2820
gacctaaagt aaaaggagat atggacattt ccgttctaa actggaggga gatctgaaag 2880
gtcccaaagt ggatgtcaaa ggccctaaag tgggcattga cactcctgat attgacattc 2940
atggtccaga agggaaactg aagggcccga aattttaa atgtgactta cacctcaagg 3000
caccgaagat cctctatgcc gaagtgtacc tgaattctgaa aggtccaaag gtgaagggtc 3060
acatggacat ttctctgccc aaagtgtgaa ggcacctcaa gggcccga gttgacatc 3120
gggaccccaa agtggacatt gatgtcccag atgtggacgt tcaaggcccc gactggcacc 3180
taaaaatgcc caaagtgaat atgcccagtc tcagcatgcc tggcttcaa ggagagggtc 3240
cagatgtgga tgtgaacctg cccaaggctg acattgatgt ctcaggaccc aaagtggacg 3300
ttgatgttcc ttgatgtaat atcgaagggt cagatgcgaa actaaagggt cccaagtcca 3360
agatgcctga gatgagcatc aaagccccc agatctccat gcctgatatt gacttaaac 3420

tgaaaggacc	caaagtgaag	ggcgatgtgg	atgtttaccct	tcctaaagtg	gaaggtgacc	3480
tcaagggccc	agaagctgac	atcaagggcc	caaaagtggg	catcaacacc	cctgatgtgg	3540
atgttcatgg	cccagactgg	cacctgaaga	tgcccaaggt	gaaaaagccc	aaattcagca	3600
tgccctggctt	caaaggagag	ggcccagatg	tgatgtgaa	cctgcccagg	gctgacattg	3660
atgtctcagg	acccaaagtg	gacgttgatg	ttcctgatgt	gaatatcgaa	ggtccagatg	3720
cgaaactaaa	gggcccgaag	ttcaagatgc	ctgagatgag	catcaaagcc	ccaagatct	3780
ccatgcctga	tattgactta	aacctgaaag	gacccaaagt	gaaggcgat	gtggatgta	3840
cccttcctaa	agtggaaagt	gacctcaagg	gcccagaagc	tgacatcaag	ggcccaaaag	3900
tggaacatcaa	cacctctgat	gtggatgttc	atggcccaga	ctggcacctg	aagatgccc	3960
aggtgaaaat	gcccaaattc	agcatgcctg	gcttcaaagg	agaaggtcca	gatgtggatg	4020
tgagcctgcc	caaggccgac	atogatgtct	cgggacccaa	ggtggacgtt	gatattccag	4080
atgtgaatat	cgaagggtcca	gacgcaaaac	tgaaggggcc	caagtccaag	atgcctgaaa	4140
taaatatcaa	agctcccaag	atctccatac	ctgatgttga	cctggatttg	aaaggaccac	4200
aagtaaaagg	agattttgat	gtgtctgtcc	ctaagggtga	agggactttg	aaaggcccag	4260
aagtagatct	taaagggtcca	cgtctggatt	tcgaaggccc	tgatgccaaa	ctcagtggcc	4320
catctttgaa	gatgccatcg	ctggagatat	ctgctcctaa	agtaactgct	cctgatgttg	4380
atthgcatct	caaggcacca	aaaattggat	tttcagggtcc	gaagttagaa	ggtggtgaag	4440
tggaacctcaa	gggacccaaa	gttgaagctc	caagcttaga	tgtacacatg	gacagcccag	4500
atattaacat	cgaaggggcca	gatgttaaaa	tcccaaatt	taagaaaccc	aagtttggtg	4560
ttggggcaaaa	aagccccaaa	gctgacatca	agtcaccttc	actggatgtc	actgttcctg	4620
aggcagagct	gaacctttgag	actcctgaaa	ttagtgttgg	tggaaggggc	aagaaaagta	4680
agtttaaaat	gcctaaaatt	catatgagtg	gtcctaagat	taaggccaaa	aaacagggat	4740
ttgacctgaa	tgttcctggg	ggtgaaattg	atgccagcct	caaggctccg	gatgtagatg	4800
tcaacatcgc	agggcccgat	gctgcactca	aagtcgacgt	gaaatcgccc	aaaaccaaga	4860
aaacgatgtt	tggaaaaaatg	tacttcccag	atgtagagtt	tgacattaaa	tcacctaaat	4920
ttaaagctga	ggcccctctc	cctagcccca	aactggaggg	tgaactccag	gcacctgatc	4980
tggaactttc	tttgccagcg	attcacgtcg	aaggtcttga	catcaaggcg	aaggctccca	5040
aggtcaagat	gccagatgtg	gacatctcag	tgccaaaaat	agagggtgac	ctgaaaggcc	5100
ccaaagtgca	ggcaaaacttg	ggtgcacctg	acatcaacat	cgaaggccta	gatgtctaaag	5160
tcaaaaacac	gtccttccgg	atthctgccc	ctcaagtctc	catecctgat	gtgaatgtaa	5220
acttgaaagg	accaaaagata	aagggtgatg	tcccagcgt	gggactggaa	ggaccagatg	5280
tagatctgca	aggtccagaa	gcaaaaatta	agttcccca	gttttccatg	cccaagatcg	5340
gcatcccagg	tgtgaaaatg	gaggggtggg	gagccgaggt	ccatgccag	ctacctctc	5400
ttgaaggaga	cttgagagga	ccagatgtta	agctcgaagg	gcccgatgtt	tctctaaagg	5460
ggccaggagt	agacttgctt	tcagtgaacc	tctctatgcc	aaaagtctct	gggacctgac	5520
ttgatctgaa	cttgaaagga	ccaagtttga	agggagacct	ggatgcatct	gttcccagca	5580
tgaagggtgca	tgctccaggg	ctcaacctca	gtggtgtcgg	tggaaaaatg	cagggtgggag	5640
gagacggtgt	gaaagtgcc	gggatcgatg	ccacaacaaa	gcttaacgtt	ggggcaccag	5700
atgtgcact	gaggggacca	agcctgcagg	gagatctggc	tgtctctggt	gacatcaaat	5760
gccctaaagt	atccgtagga	gctcctgac	taagcttggg	ggcatccgaa	ggcagcatta	5820
aacttcccaa	aatgaagctg	ccccaatttg	gcatctctac	tccggggtcc	gacttgcacg	5880
tcaatgccaa	ggggccacag	gtttctggcg	aactgaaggg	gccaggtgtg	gatgtgaacc	5940
tgaaggggcc	tgggatttca	gcaccgaatg	tggaacttaa	cttggaagga	ccaaaagtga	6000
aagtgagcct	tggtgagatca	gggtgagatca	tggtcccccac	tgctcgagga	ggctctccag	6060
gcattggtgt	tcaaggccta	gaaggaaacc	tccagatgcc	tggaattaa	tcctctggat	6120
gtgatgtgaa	cctgccaggc	gtgaatgtga	aactcccaac	tgggcagatt	tctgggcctg	6180
aatcaaaagg	tggtctgaaa	ggttcagaag	taggtttcca	tggggtctgt	cctgatatca	6240
gtgtgaagg	gcctgccttt	aatatggcat	ctcctgagtc	agattttggc	atcaacttga	6300
agggcccaaa	aatcaaaagga	ggtgaggatg	tttcaggggg	tgatgtgag	ccagacatca	6360
gccttggtga	agggcatttg	agtgttaaag	gttccggggg	tgagtggaag	ggaccccaag	6420
tctcctctgc	tctcaacttg	gacacatcta	agtttgctgg	gggccttcac	ttctcaggac	6480
caaagggtga	aggaggtgtg	aaaggaggtc	agattggact	ccaggctcct	gggctgagtg	6540
tgtctggggc	ttggaaaagt	ttggaaaagt	gatctggaaa	agtaacattc	cctaaaatga	6600
agatccccaa	atthaccttc	tctggccgtg	agctggttgg	cagagaaatg	ggggtggatg	6660
ttcacttccc	taaagcagag	gccagcatcc	aagctggtgc	tggaagcggc	gagtggaag	6720
agtctgaagt	caaactgaaa	aagtccaaga	tcaaaatgcc	caagtttaac	ttttccaaac	6780
ctaaagggaa	aggtggtgtc	cagaagcatc	cagaagcatc	aatttctggg	tccaaagggt	6840
acctgaaaag	ttcaaaggcc	agcctgggct	ctctggaagg	agaggcagag	gccgaagcct	6900
cttcaccgaa	aggcaaatc	tccttattta	aaagtaagaa	gccacggcac	cgctcaaat	6960
cattcagtga	tgaagagag	ttctctggac	cttccacccc	gacggggacg	ctggagtttg	7020
aaggtgggga	agtgtctctg	gaaggtggga	aagttaaagg	gaaacacggg	aagctgaaat	7080
tcggtacctt	tggtggattg	gggtcaagga	gcaaaaggtc	ttatgaggtg	actgggagcg	7140
atgatgagac	aggcaagtta	caggggagtg	gggtgtccct	ggcctctaag	aagtcctgac	7200
tgtcctcctc	ttctagcaat	gacagtggga	ataaggttgg	catccagctt	cccaggtggg	7260
agctgtcagt	ttccacaaag	aaagagtagc	agggccttgg	atgtgtgtac	atatatatat	7320
atataacaaa	acatgcct	tgggtggtgt	gttctctat	aaactccaaa	gggaaacaca	7380
ccgactgcct	cagcaatcat	gcaaagacct	tgcttgggcc	ggtggcaagc	gctgaaaaac	7440

cgaccgcctg	taggctcctg	gaactataca	gataggtaaa	gagttccaag	ttcgtccagc	7500
ccatgtgcaa	agtcaacagt	at ttgcctta	agatttcata	tatatatatt	tttttgcatt	7560
gactgctgag	agctcctggt	tactaagcaa	gcttttgtgt	ttattatcct	catttttact	7620
gaacattggt	agttttgggg	taatggaaac	ccactttttc	attgtaatga	ctttgggggc	7680
ttttgttagt	aagggtgggt	ggggtgatgg	gttgacagacg	gaggtcaggt	cttcctcttt	7740
cctgagactg	gatctgttca	aacagcaaac	gcccacagat	ggcccagagg	tgggtggtagt	7800
cagggtgtgt	gggtgttttt	aggggttcttt	agtgtgtgtt	ctttcaccca	ggggtgggtg	7860
tcccagccag	tttgggtgctg	acgggtgagag	gaaattagaa	tctgtttgca	aattgtccaa	7920
cccacccct	caacatgagg	ggcttccatt	ttctgtgttt	tgtaagggaa	ctgtttccct	7980
catgccgcca	tgttctctgat	attagttctg	at ttcttttt	aacaaatgtt	atcatgatta	8040
agaaaaattc	cagcacttta	atggccaatt	aactgagaat	gtaagaaaat	tgatgctgta	8100
caaggcaaat	aaagctgttt	attaaccttg	tacagcatca	at ttctttac	at ttctctgtg	8160
ttttgtaagg	gaactgtttc	cttcatgccg	ccatgttctt	gatattagtt	ctgatttctt	8220
tttaacaaat	gttatcatga	ttaagaaaat	ttccagcact	ttaatggcct	attggtactt	8280
tggggtgctg	at acccaaaa	cagatgcaat	cttctctcca	aggaagtcac	acactgagag	8340
agttgatgta	gcagcccgaa	gcattgtaaaa	ccataagtag	ggaccccgag	taagttttgt	8400
cggatcaaca	gtaggcaaaa	catctttctt	ctccaggcca	tcaacttcgt	cttcatctgt	8460
gctatattct	tccattgttt	caccactaac	aaagtggatg	actctccttg	ggactttctt	8520
cttttttctt	atgactccca	gttctacatt	ttcaaagcct	ctttcgttac	tcactctgcca	8580
tataacctga	gcgcccgcgc	ggccacgaca	cgaggaaattc	gcccacgcag	gaggcgcggc	8640
gctccggagg	ccccagggtt	atgagactat	cactgctcag	gacctactaa	caacaaagat	8700
ttaattaaga	tataagatgt	aaattgatac	aagt			8734

<210> 32

<211> 2753

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 481594.12

<400> 32

ggcaaatctt	tatcagccac	tgcctttctg	tgccaggaag	ccagctagag	tggctctttaa	60
agaaaaactg	gcattctcctg	ctactttaaaa	tcaaaaacta	cctaaaaata	agattataaa	120
aaagtaagga	tgaatggatg	gtcttttgatt	ggcgccgctg	gtgacgcccg	tcattggtttt	180
ggaaggaccc	ttttggaact	aaagctgggtg	acgcagcgcg	cagaggaatc	gcccgggctaa	240
gcttggccct	ggcagatggg	tgcgaggaac	aggagccaga	ggaagagata	gccatggagg	300
acagccccac	tatggttaga	gtggacagcc	ccactatggt	taggggtgaa	aaccagggtt	360
cgccatgtca	agggagaagg	tgcttcccca	aaagctcttg	ctatgtcacc	ggtgacatga	420
agaacttgc	caaccagctt	aaagacaaac	ccgtgggtgct	ccagttcatt	gactggattc	480
tccggggcat	atcccaagtg	gtgttcgtca	acaaccccg	cagtggaaatc	ctgattctgg	540
taggacttct	tgttcagaac	ccctgggtggg	ctctcactgg	ctggctggga	acagtgggtc	600
ccactctgat	ggccctcttg	ctcagccagg	acaggtcatt	aatagcatct	gggctctatg	660
gctacaatgc	caccctgggtg	ggagtactca	tggctgtctt	ttcggacaag	ggagactatt	720
tctggtggct	gttactccct	gtatgtgcta	tgtccatgac	ttgcccatt	ttctcaagtg	780
catgaaatc	catgctcagc	aaatgggacc	tccccgtctt	caccctccct	ttcaacatgg	840
cgttgtcaat	gtacctttca	gccacaggac	attacaatcc	gttctttcca	gccaactgg	900
tcatacctat	aactacagct	ccaaatatct	cctggtctga	cctcagtgcc	ctggagtgtt	960
tgaatctat	accagtggga	gttgggtcaga	tctatggctg	tgataatcca	tggacagggg	1020
gcattttcct	gggagccatc	ctactctcct	ccccactcat	gtgcctgcat	gctgccatag	1080
gatcattgct	gggcatagca	gcgggactca	gtctttcage	cccatttgag	aacatctact	1140
ttgactctg	gggtttcaac	agctctctgg	cctgcattgc	aatgggagga	atgttcatgg	1200
cgctcacctg	gcaaacccac	ctcctggctc	ttggctgtgc	cctgttcacg	gcctatcttg	1260
gagtcggcat	ggcaaacctt	atggctgagg	ttggattggc	agcttgatcc	tggcccttct	1320
gtttggccac	gctattgttc	ctcatcatga	ccacaaaaaa	ttccaacatc	tacaagatgc	1380
ccctcagtaa	agttacttat	cctgaagaaa	accgcatctt	ctacctgcaa	gccaagaaaa	1440
gaatgggtgga	aagccctttg	tgagaacaag	ccccatttgc	agccatggtc	acgagtcatt	1500
tctgcctgac	tgctccagct	aacttccagg	gtctcagcaa	actgctgttt	ttcacgagta	1560
tcaacttttc	aaatgggaagc	cagattttcaa	aacccttttg	gtaacactgg	aacgagcaag	1620
cgagaacaca	cctttcaagg	agcctcacca	aacctgggag	atacagactg	catgtgttta	1680
cccggaaaaa	tggaaacgaaa	agagagacta	tccatactgg	gattcagaaa	agagaggatt	1740
ggacctcagg	gcttctctgat	gcattcaggag	attctctgga	gttctcaatt	gttgcctctc	1800
acgcctgtgc	acgatggccc	aataggggat	tgaccaact	ccggagcagt	ggaagcagat	1860
tgcttctgtc	atgaagcacc	ggtttctgtt	ccccttcttt	gactcagcct	atcagggtct	1920
cgactctgga	aacctggaga	gagatgcctg	ggccattcgc	tattttgtgt	ctgaaggctt	1980
cgagttcttc	tgtgccagtg	ccttctccaa	gaacttcggg	ctctacaatg	agagagtcgg	2040

gaatctgact	gtggttgga	aagaacctga	gagcatcctg	caagtccttt	cccagatgga	2100
gaagatcgtg	cggattactt	ggtccaatcc	ccccgccag	ggagcacgaa	ttgtggccag	2160
caccctctct	aacctgagc	tctttgagga	atggacaggt	aatgtgaaga	caatggctga	2220
cgggattctg	accatgagat	ctgaactcag	ggcacgacta	gaagccctca	aaaccctgg	2280
gacctggaac	cacatcactg	atcaaatggg	catgttcagc	ttcactgggt	tgaaccccaa	2340
gcaggttgag	tatctggtca	atgaaaagca	catctacctg	ctgccaagtg	gtcgaatcaa	2400
cgtgagtggc	ttaaccacca	aaaatctaga	ttacgtggcc	acctccatcc	atgaagcagt	2460
caccaaaatc	cagtgaagaa	acaccaccgg	tccagtacca	ccaaagtagt	tctctgtcat	2520
gtgtgttccc	tgcttgacaca	aacctacatg	tacataccat	ggattagaga	cacttgccag	2580
acttaaaagc	tgctctgggtg	aggcagctct	gtttaaaccg	gcccccatg	aagaggatat	2640
cccttgagac	gaatttgag	actgggatta	gaacctttgg	aggtaaagc	aaattgaagt	2700
ttttatttaa	gaataaaaga	atatttttga	catgaaaaaa	aaaaaaaaaa	agg	2753

<210> 33

<211> 1704

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 978788.1

<220>

<221> unsure

<222> 216-390, 846-889, 1593

<223> a, t, c, g, or other

<400> 33

tacaaagttt	taagaaagcc	agcatctcag	aaaggccttt	caaacaagga	cacttaatta	60
gccatcttat	gtataagaaa	agaaatataa	agaacatgaa	aatttaaaaa	cagatttggc	120
agttttataa	cagtcctagga	ggtggtgta	ttttttccta	ttaagaatta	gagggcaggt	180
taggaataaa	taaaatacag	tttgaaaata	atgagnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
gtggctacaa	gggacccaca	gaattacagg	gaagttacag	ggaagcaggt	ttcatctcaa	480
tattgggaga	gatttcaaac	aatcacacct	gcctgagaag	gagtgggctg	tcactaggaa	540
tttttattcc	cagtcocgtca	ggaattttgt	agaagggtct	catgtgctgg	taccaatagg	600
acaggaagat	tttaatcagc	tttactatct	atgttttttt	atggaaactg	tgtgtatgta	660
tacatacatt	ttccaaaaag	aaaaattaaa	tgattataga	gattatgttt	ttcagactac	720
tcacgtatct	gctttttctta	ctccccacct	ctgctgataa	ttcctagttc	attgggtttt	780
cccccacact	ggaattacct	ggggagctta	aaaaaccctg	atgcctgggt	cccaccctca	840
gagatnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	900
cagctctggc	actgggaaat	ttaaaaactc	cccagataat	tctgtgcagc	caagggttag	960
acctcctagc	ctagagcttt	gctatacaca	gggtggtcca	caagccagga	gcacagcat	1020
cacttgccag	cgcttagag	attcagaccc	cagaccctct	gaatctgacc	ctgcattttc	1080
actagacccc	agggtgatcag	ctgcactaga	ctcaacctct	aaaccaagac	ctcccaccct	1140
cacagcttat	gatccttttag	tgaccctcag	ctgagtcctg	tgctgaactg	tgtttgttct	1200
ccttgagcac	atgcccgctg	accagggaca	gactggatga	gcaagcaacc	tgctggctat	1260
ggagaagagc	caggctgggt	aaatgtttgc	tgtgactaag	ccaggatcaa	agaactgcct	1320
gttgcttgca	ctggctggca	ctgagcttgc	cactctgtga	actgtgcttc	cttcccctgc	1380
atggacctgt	gcctcagtc	ctattatocg	caggccttct	ccaagggcag	ccctctcctt	1440
gtttatccct	cttaagcctg	cgtgcaggaa	ggcacattaa	ccctgtggcc	ccctgcaggc	1500
aggagggtgt	tgggtgccc	tacctacctt	ggcctttttc	ttgtaccgta	ggctgtgccc	1560
tttatgagta	agtgatgtgt	gtctgtgtgt	gtntctagaa	gtgctgcact	cacctgtgt	1620
tattggaggt	tgtgtaaccc	cctagctttg	agcctggtct	cagatgttcc	ttttccgttc	1680
tctgtccagc	cgtaaacgcc	ccca				1704

<210> 34

<211> 5701

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 335171.1

<400> 34

```

ctcaccgggc gggggagaga agccctctgg acagcttcta gagtgtgcag gttctcgtat 60
ccctcgccca aggggtatcct ctgcaaacct ctgcaaaccc agcgcaacta cgggtccccg 120
gtcagacca ggtagggggcc agaacggaca gggggccgcg cgctgccgct gctgctgggtg 180
ttagcgctca gtcaaggcat tttaaattgt tgtttggcct acaatgttgg tctcccagaa 240
gcaaaaatat tttccggtcc ttcaagtga cagtttggct atgcagtga gcagtttata 300
aatccaaaag gcaactgggt actggttggg tcaccctgga gtggctttcc tgagaaccga 360
atgggagatg tgtataaatg tcctgttgac ctatccactg ccacatgtga aaaactaaat 420
ttgcaaacct caacaagcat tccaaatggt actgagatga aaaccaacat gagcctcggc 480
ttgatcctca ccaggaacat gggaactgga ggtttttctca catgtggtcc tctgtgggca 540
cagcaatgtg ggaatcagta ttacacaacg ggtgtgtgtt ctgacatcag tccgtatttt 600
cagctctcag ccagcttctc acctgcaact cagccctgcc ctccctcat agatgttgtg 660
gttgtgtgtg atgaatcaaa tagtatttat ccttgggatg cagtaaagaa ttttttgaa 720
aaattgttac aaggcctgga tataggcccc acaaagacac aggtgggggt aattcagtat 780
gccataatc caagagtgtt gtttaacttg aacacatata aaaccaaaga agaaatgatt 840
gtagcaacat ccagacatc ccaatatggt ggggacctca caaacacatt cggagcaatt 900
caatatgcaa gaaaatatgc ctattcagca gcttctgggt ggcgacgaag tgctacgaaa 960
gtaatggtag ttgtaactga cgggtgaatca catgatgggt caatgttgaa agctgtgatt 1020
gatcaatgca accatgacaa tatactgagg tttggcatag cagttcttgg gtacttaaac 1080
agaaacgccc ttgatactaa aaatttaata aaagaaataa aagcgatcgc tagtattcca 1140
acagaaagat actttttcaa tgtgtctgat gaagcagctc tactagaaaa ggctgggaca 1200
ttagggaac aaattttcag cagtgaaggt actgttcaag gaggagacaa ctttcagatg 1260
gaaatgtcac aagtgggatt cagtgcagat tactcttctc aaaatgatata tctgatgtg 1320
ggtgcagtgg gagcttttgg ctggagtggg accattgtcc agaagacatc tcatggccat 1380
ttgatcttcc ctaaacaaagc ctttgaccaa attctgcagg acagaaatca cagttcatat 1440
ttaggttact ctgtggctgc aatttctact ggagaaagca ctcactttgt tgctgggtgt 1500
cctcgggcaa attataccgg ccagatagtg ctatatagtg tgaatgagaa tggcaatata 1560
acggttatcc aggtccaccg aggtgaccag attggctcct attttggtag tgtgctgtgt 1620
tcagttgatg tggataaaga caccattaca gacgtgctct tggtaggtgc accaatgtac 1680
atgagtgaac taaagaaaga ggaaggaaga gtctacctgt ttactatcaa aaagggcatt 1740
ttgggtcagc accaatttct tgaaggcccc gagggcattg aaaacactcg atttggttca 1800
gcaattgcag ctctttcaga catcaacatg gatggcttta atgatgtgat tgttggttca 1860
ccactagaaa atcagaattc tggagctgta tacatttaca atggtcatca gggcactatc 1920
cgcacaaagt attcccagaa aatcttggga tccgatggag cctttaggag ccatctccag 1980
tactttggga ggtctatgga tggctatgga gatttaaata gggattccat caccgatgtg 2040
tctattgggt cctttggaca agtgggtcaa ctctgggtcac aaagtattgc tgatgtagct 2100
atagaagctt cattcacacc agaaaaaatc actttggtca acaagaatgc tcagataatt 2160
ctcaaacctc gcttcagtgc aaagttcaga cctactaagc aaaacaatca agtggccatt 2220
gtatataaca tcacacttga tgcagatgga ttttcatcca gagtaacctc caggggggta 2280
gttaagaaaa acaatgaaag gtgctgcag aagaatatgg tagtaaatca agcacagagt 2340
tgccccgagc acatcattta tatacaggag cctctgatg ttgtcaactc tttggatttg 2400
cgtgtggaca tcagtctgga aaacctggc actagccctg cccttgaaagc ctattctgag 2460
actgccagg tcttcagtat tcctttccac aaagactgtg gtgaggacgg actttgcatt 2520
tctgatctag tctcagtgt ccgacaaata ccagctgctc aagaacaacc ctttattgtc 2580
agcaacccaa acaaaaggtt aacattttca gtaacgctga aaaataaaag ggaaagtga 2640
tacaacactg gaattgttgt tgatttttca gaaaacttgt tttttgcata atttcccta 2700
ccggttgatg ggacagaagt aacatgccag gtgctgcat ctcagaagtc tgttgccctg 2760
gatgtaggct accctgcttt aaagagagaa caacaggatg cttttactat taactttgac 2820
ttcaatcttc aaaaccttca gaatcaggcg tctctcagtt tccaagcctt aagtgaagc 2880
caagaagaaa acaaggctga taatttggct aacctcaaaa ttcctctcct gtatgatgct 2940
gaaattcact taacaagatc taccaacata aatttttatg aaatctcttc ggatgggaat 3000
gttcttcaa tcgtgcacag ttttgaagat gttggtccaa aattcatctt cctccgaag 3060
gtaacaacag agaagtgctc agtaagcatg gcaactgtaa tcatccacat ctccagat 3120
accaagaaa agaaccact gatgtacct actgggtgc aaacagacaa ggctggtgac 3180
atcagttgta atgcagatat caatccactg aaataggac aaacatcttc ttctgtatct 3240
ttcaaaagtg aaaatttcag gcacacccaa gaattgaact gcagaactgc ttctgtagt 3300
aatgttacct gctggttgaa agacgttcc atgaaaggag aatactttgt taatgtgact 3360
accgaatttt ggaacgggac tttogcatca tcaacgttcc agacagtaca gctaaccgca 3420
gctgcagaaa tcaacaccta taacctgag atatatgtga ttgaagataa cactgttacg 3480
attcccctga tgataatgaa acctgatgag aaagccgaag taccacagg agttataata 3540
ggaagtataa ttgctggaat ccttttgctg ttgactctgg ttgcaatttt atggaagctc 3600
ggcttcttca aaagaaata tgaaaagat accaaaaatc cagatgagat tgatgagacc 3660
acagagctca gtagctgaac cagcagacct acttgcagtg ggaaccggca gcatccagc 3720
cagggtttgc tgtttgcgtg aatggatttc tttttaaatc ccatattttt tttatcatgt 3780
cgtaggtaaa ctaacctggt attttaagag aaaactgcag gtcagtttgg aatgaagaaa 3840
ttgtgggggg tgggggaggt gcggggggca ggtagggaaa taatagggaa aatacctatt 3900
ttatatgatg ggggaaaaaa agtaatcttt aaactgggct ggcccagagt ttacattcta 3960

```



```
atttgcattg tgtcagaaac atgaaatgct tccaagcatg acaactttta aagaaaaata 4020
tgatactctc agatttttaag ggggaaaact gttctcttta aaatatattgt ctttaaacag 4080
caactacaga agtggaaagt cttgatatgt aagtacttcc acttggtgat attttaatga 4140
atattgatgt taagagggga aaacaaaaca cagggttttt caatttatgc tgctcatcca 4200
aagtggccac agatgatact tccaagtgat aattttatgt ataaactagg taaaatttgt 4260
tgttggttcc ttttagacca cggctgcccc ttccacaccc catcttgctc taatgatcaa 4320
aacatgcttg aataactgag cttagagtat acctcctata tgtccattta agttaggaga 4380
gggggcgata tagagactaa ggcacaaaat tttgtttaaa actcagaata taacatgtaa 4440
aatcccatct gctagaagcc catcctgtgc cagagggaagg aaaaggagga aatttccttt 4500
ctcttttagg aggcacaaca gttctcttct aggatttgtt tggctgactg gcagtaacct 4560
agtgaatttt tgaaagatga gtaatttctt tggcaacctt cctcctccct tactgaacca 4620
ctctcccacc tcctgggtgt accattatta tagaagccct ctacagcctg actttctctc 4680
cagcgggtcca aagtattacc ctcttttacc cctcatccaa agttcccact ccttcaggac 4740
agctgctgtg cattagatat taggggggaa agtcatctgt ttaatttaca cacttgcatg 4800
aattactgta tataaactcc ttaacttcag ggagctatgt tcatttagtg ctaaacaagt 4860
aagaaaaata agctcgagtg aatttctaaa tgttggaaatg ttatgggatg taacaatgt 4920
aaagttaaac atctcaggat ttaccagaa gttacagatg aggcactgga agccaccaa 4980
ttagcagggtg cacttctgtg ggctgtcttg tttctgaagt acttaacctt ccacaagagt 5040
gaatttgacc taggcaagtt tgttcaaaag gtagatcctg agatgatttg gtcagattgg 5100
gataaggccc agcaatctgc attttaacaa gcacccagct cactaggatg cagatggacc 5160
acactttgag aactcagccc catttctact ttttgcacct tattttctct gttcctgagc 5220
ccccacattc tctaggagaa acttagagga aaagggcaca gacactacat atctaaagct 5280
ttggacaagt ccttgacctc tataaacttc agagtcctca ttataaaatg ggaagactga 5340
gctggagtcc agcagtgatg cttttagttt taaaagtcta tgatctggac ttctataat 5400
acaaataaac aatctcaca gaatttgact tggaaaaaaa tgtcaaagga aaacaggtta 5460
tctgccatg tgcatatgga caaccttgac taccttggcc tggcccggtg tggcagttca 5520
gggctatctg tactgtttac agaattactt tgtagttagc aacacaaaac aaacaaaaaa 5580
ggcataaaat gccagcgggt tatagaaaaa acagcatggt attctccagt taggtatgcc 5640
agagtccaat tcttttaaca gctgtgagaa tttgctgctt cattccaaca aaattttatt 5700
t 5701
```

<210> 35
<211> 1039
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 998433.2

```
<400> 35
cttagtcgcg ggctgactgg tgtttatccg tcaactcgccg aggttccttg ggatcaggtg 60
ccagcctgac tgagaagagg acgctcccgg gagacgaatg aggaaccacc tctcctact 120
gttcaagtac aggggctcgg tccgcaaagg gaagaaaagc aaaagacgaa aatggctaaa 180
ttcgtgatcc gccagccac tgccgccgac tgacgtgaca tactgcccgt gatcaaggag 240
ctggctaaat atgaatcacat ggaagaacaa gtaatcttaa ctgaaaaaga tctgctagaa 300
gatggttttg gagagcacc cttttaccac tgccctggtt cagaagtgcc gaaagagcac 360
tggactccgg aaggacacag cattgttggt tttgccatgt actattttac ctatgacctg 420
tggattggca agttattgta tcttgaggac ttcttcgtga tgagtatta tagaggcttt 480
ggcataggat cagaaattct gaagaatcta agccaggttg caatgaggtg tcgctgcagc 540
agcatgcact tcttggtagc agaattggaat gaaccatcca tcaacttcta taaaagaaga 600
ggtgcttctg atctgtccag tgaagagggt tggagactgt tcaagatcga caaggagtac 660
ttgctaaaaa tggcaacaga ggagtgagga gtgctgctgt agatgacaac ctccattcta 720
ttttagaata aattcccaac ttctcttgct ttctatgctg tttgtagtga aataatagaa 780
tgagcaccca ttccaaagct ttattaccag tggcgttggt gcatgtttga aatgaggtct 840
gtttaaagtg gcaatctcag atgcagtttg gagagtcaga tctttctcct tgaatatctt 900
tcgataaaca acaagtggtg gtgatcttaa tatatttgaa aaaaacttca ttctcgtgag 960
tcatttaaat gtgtacaatg tacacactgg tacttagagt ttctgtttga ttctttttta 1020
ataaactact ctttgattt 1039
```

<210> 36
<211> 1387
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<223> Incyte ID No: 221928.9

<220>

<221> unsure

<222> 419, 433, 488

<223> a, t, c, g, or other

<400> 36

gtaaataattt	gtattagccg	gagccggctc	gctaattggtg	gacgcgtgag	gcggaggcgc	60
gggcgggcga	gggaggccgg	agcgggcagc	gcgggcggcg	catgtccgtg	aacatggacg	120
agctcaagca	ccaggtcatg	atcaaccagt	tcgtgctgac	ggcgggctgc	gcgggcgacc	180
aggcgaaaca	ctgctgcagg	cgggccactg	gcagttcgag	acagccctca	gcgccttttt	240
ccaggagacc	aacatccctt	acagccacca	tcaccaccag	atgatgtgca	cccccgcaa	300
tacccctgct	acacccccca	acttccctga	cgctctcacc	atgttctccc	gtctcaaggc	360
ctccgagagc	ttccacagcg	gtggcagcgg	cagcccgatg	gccgcgacag	ccacgtcanc	420
cccgccacac	ttncctccatg	ccgccaccag	cagctctgcg	gcctccagct	ggccccacggc	480
ggcctggnc	ccgggggggc	cacagcacca	ccagccacag	ccgccccctgt	gggactccaa	540
caccccttc	tccgcttca	gactggccac	ccctgggccc	cccaacaggc	cacctcagaa	600
cccaggggccc	accctgccat	ggaggcagag	agataaggga	ggccccctccc	ccctcccggga	660
ggccaggacc	ccgtggggcg	ggggagagga	cgtctctgcg	ggcccccttc	accccttttc	720
tgtctgcacc	ccttggtccc	cggagccctg	gaggggagag	cgcggaactct	agccaggcag	780
ggacacgtct	ggtgccagaa	cacgcagctg	cccacacgca	aggtcattggc	ccagcggcc	840
ccggcacatg	gagtgggttca	gagcggcctg	ggtgcctggc	ggacagaact	tcagagacca	900
cgcagccttc	cttcgaagac	gcacctgccc	agcccagccc	aggggtgccg	tggaggacca	960
ccctggcgga	gacattgctg	atccctgggt	tggagctcct	tggggggccgg	caggccctcga	1020
ccccaccct	agggagcctc	gagcctctcc	gcattgtgtg	gcgtggccgt	gtctgtgtat	1080
ttctacgtgt	gtcgtcttcc	agaagcaacc	tagttcctgg	ggcagctgga	ctttgcatgt	1140
tagtgtgagc	ccccagcccc	ctgcccgcgc	ccccctccc	agggccctgc	ctcctcccca	1200
ccccctcgtc	agccagcgtt	gctgttccct	gcagagaaaa	ggattgtggg	aaactccagg	1260
actcttccca	ccgcctccca	gcgcctgcct	gctggggctg	cctgcattgcc	tccctgcac	1320
ctgggggtac	ccgcattccac	ttcctttccc	cctttaaca	aaagagaaga	acgaattcca	1380
aaccact						1387

<210> 37

<211> 4720

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 331291.3

<400> 37

ttaggaggag	atccaacttg	gtcctttttt	ctcactttct	gcactttgct	catatggaat	60
cttgctgctg	cacagctcat	gctagcctgt	cactcttctt	tctactccca	atcatccttg	120
ccttctacta	ccttcatcat	ctaaccatct	gaaagatttc	caccttggag	tgtgggtaat	180
ggaaccccaa	ggaggcttct	ttctctgtct	ttctgctggg	ctctgaagag	gcagaggagg	240
caggggaggc	tccaggctgt	ggggccatga	cagcagtgtg	agtctctcct	gcttcccag	300
gtacttccag	tgcccgcaca	gtttggtctc	tttgcatcca	tccacaaggc	gatccatact	360
ggcttcccat	ccaccagccc	agccaaggcc	aagaagacca	aacgtatggc	catgggtgtg	420
tcagcactga	cccacagtcc	cagcatttcc	tccatcagtt	ccatcggttc	catggcctcc	480
tttgtagggg	ggcgggcccag	ccgcagtggc	ctgctcacgg	agacctcttc	acgctacgcc	540
cgcaagatct	cgggcaccac	ggccttgtag	gaggcactga	aggagaagca	gcagcacatt	600
gagcagctgc	tggctgaacg	agacctggaa	cgggctgagg	tggccaaggc	cacaagccac	660
atctgcgagg	tggagaagga	gattgcccct	ctcaaggcac	agcatgagca	gtatgttgca	720
gaagccgagg	agaagctgca	gcgagcccgg	ctgctcgtgg	agagcgtgcg	gaaagagaag	780
gtggacctgt	ccaaccagct	ggaggaggag	aggaggaagg	tggaggatct	gcagttccgc	840
gtggaggagg	agtcctatcac	caagggagac	ctggagaccc	agacgcagct	ggagcacgcg	900
cgcatgtggg	agctggaaca	gagcctgcta	ctggagaagg	cgcaggccga	gcggctgctc	960
cgagaattag	cggacaacag	gctgaccaca	gtggccgaga	agtcgcgcgt	gctgcagctg	1020
gaggaggagc	tcacctgctg	ccgaggtgaa	atcgaggagc	tccagcagtg	cctgttgac	1080
tcgggtcccc	cacctccgga	ccaccagagc	gcccgcgaga	tctgcggct	acgggagcgg	1140
ctgctctcgg	ccagcaagga	acaccagagg	gagagtgggg	tgctgcggga	taaatacgag	1200
aaggccctga	aggcctacca	ggcggagggt	gacaagctcc	gcgcggccaa	cgagaagtac	1260
gcacaggagg	tggcgggcct	gaaggacaag	gttcagcagg	ccaccagcga	gaacatgggg	1320
ctaattggaca	actggaaatc	caagctggac	tcgctggcct	cggaccacca	gaagtccctg	1380
gaggacctca	aagccaccct	gaactcgggc	ccaggcgccc	agcagaagga	gatcggcgag	1440

ctgaaggcag	tgatggaggg	catcaagatg	gagcaccagc	tggagctggg	taacttgag	1500
gccaaagcatg	acctggagac	cgccatgcac	gtgaaggaga	aggaggccct	gcgagagaag	1560
ctgcaggagg	cccaggagga	gctggctggg	ctgcagcggc	actggcgggc	ccagctggag	1620
gtgcaaggcca	gccagcaccg	gctggagctg	caggaggccc	aggaccagcg	ccgggatgcc	1680
gagctgcgtg	tgcacagact	ggaaaaactg	gacgtggagt	accggggcca	ggcgaggct	1740
atcgagttcc	tcaaggagca	gatctcgctg	gccgagaaga	agatgttggg	ctacgagcgg	1800
ctgcagcggg	cagaagccca	gggcaaacag	gaggtcgaga	gtttgcggga	gaagctcctg	1860
gtggctgaga	acagactcca	ggcggtcgag	gcctgtgtct	cctcccagca	caccacatg	1920
attgagtcga	atgacatttc	agaggagacg	atcaggacga	aggaaactgt	ggagggcctg	1980
caggacaagc	tgaacaagag	ggacaaagag	gtgacagcct	tgacctcca	gaccgagatg	2040
ctcaggggccc	aagtaagtgc	gctggagagc	aagtgttaagt	caggcgagaa	gaaggtggac	2100
gccctcctga	aggagaagcg	gcgcctggag	gcagagctgg	agaccgtgtc	ccggaagacc	2160
catgagccct	cgggcagcct	agtctctcat	agccaggagc	tgctgcggaa	ggagcggagc	2220
ctgaacgaac	tgcgggtgtt	gctgctggag	gccaatcgtc	actccccagg	gccggagagg	2280
gacctgagcc	gtgaggtaca	caaggctgag	tggcggatca	aggagcagaa	actcaaggat	2340
gacatccggg	gcctgcgtga	aaagctgacc	gggctggaca	aagagaaatc	cctgtcggat	2400
cagaggcgct	actccctcat	cgaccctgcc	tggcgcccg	agcttctgcg	gctgcagcac	2460
cagctgatga	gcacggagga	cgccctgcgg	gatgcgttgg	accaggctca	gcaggtggag	2520
aagctgatgg	aggccatgag	gagctgccct	gacaaggccc	agaccatcgg	caattccggt	2580
tctgcaaacy	gcatccacca	gcaggacaaa	gctcagaaac	aagaggacaa	gcactgatcc	2640
tgaggggata	ctgtggagca	gccagtgcca	caccagagcc	ccacgcggct	gcccggcagt	2700
acctcctcca	gggactgtca	ctttggagac	aaaacagtgt	tggttaacat	tggttaacat	2760
aacgtactca	ccgcgcggga	caatccccc	ccccgatccc	tcgccagacc	aggacgcttc	2820
ctcaagccca	gccttctaca	gagagtgtga	acggtacagc	cctggcctga	cccggggacc	2880
ttcagcctgg	acacccggca	gcttctggag	tttgtcagtg	gaggcagagg	ggatccggcc	2940
aggccctct	gtccagaagg	agctgccctg	aggaccatct	tagcgccct	gtcctctttt	3000
tccgccatt	ctccctcggg	tctcccaga	ggggccggcg	ggggctgggg	agggggtaag	3060
tttatccatg	cagacaccaa	gggggagcat	ccagtcttta	agagccaagt	ggggggccct	3120
tttccgaagc	cacttccagg	ccaaggcagt	cgccagggct	tcttgtcccc	accttctgaa	3180
ccttcttcaa	acagtagtac	aagctccctt	cagccagcct	gcctgcccag	cgaggccccc	3240
aggttcaagg	tgttggcggg	ggcggaaggg	gagccttctc	gacgttcttc	ccgctgccca	3300
ccaacaccaa	cacacacaca	cctctaagct	gctggccgaa	gatgtcacca	aggccaaaga	3360
cacagtatta	tgaaggtttg	gaaacccctc	tcctcacctc	ccaccgtgac	cttgggcaaa	3420
ccctggctcg	gagcccaggg	cagaggcagc	tcagagtggg	ggctctaggc	aggtttgaca	3480
aaggtcagta	atacggtttc	ccctggggtt	gaccagatgt	tcacaaatat	ctgcatccac	3540
ctggagatgc	agctaaagtg	gtccttatgt	acacaccacg	ttcacacaca	cacagaggga	3600
ccacgtgtgc	acgcatgacc	gtgtgggtgg	cggcgtttgc	tgtgaaccat	gctcaggcca	3660
cacagagaca	catacttggt	ttctgggact	gagaccaggg	cctggcagga	ccgtgcctac	3720
agatactgca	aaggttccta	cagcctagag	gtgcgtatac	acacccaagt	acacgcagcc	3780
aggcattcag	tggtgtgttt	gccacatgga	gcatcccttc	ctggctcttc	caggcacctg	3840
cacagagcgt	ctccagcccc	atctcctaac	gggggctggg	ggtaagagaa	atctaaactg	3900
gtccccccaa	cccctcgccc	tgccatcttc	ccctcaagcc	tgctaagtta	tcacagccct	3960
gtgcgtgggtg	gaaaaagcca	gccttgcccc	tgacgcctcc	acctcgccgc	tggggggacca	4020
acaggttgct	tacagctttg	caccccgcca	tcagcacagg	ggctccctgc	ccacccctcg	4080
gcagctcagg	gagtggtttt	ctgtgaggcc	tccccatca	gtggaccaga	gggagaagcc	4140
cgatgcccc	tcccggtttt	cccgtaacgc	acaggacacg	tgtgcaattc	ataggaacgg	4200
cccagatcgc	cctcatgagt	gccacctggt	acaggtagg	ggcgctcacg	ttcctgcccc	4260
aatgcagccc	atcggggagt	cacagtcagt	ccccccggcc	cccctcccag	tcctgtttgg	4320
ctttcggtag	ctctcgcatg	cagttctatt	aacagccgtc	tagaagcgat	gcttttagtg	4380
cctaaccag	ggtcaaatac	agctctttct	agcaaaatca	ggcagctctg	ccccatcggt	4440
aggggcaccg	attagtctac	taacagccag	aggtccatct	aggagggtgc	cgggaggagc	4500
tgagcccccg	gaggtgggct	cctggtgacg	ggtgtccaag	aagcggtttc	cttgggagct	4560
tctgcctccg	tgggcctctc	agcccgcccc	ctgtggccgc	cgggtgtgtg	ctcagccatg	4620
tccctcccc	aggtccttca	ttcaaccctc	ccctcccac	agtgaattg	ttgaagtgtg	4680
gcgagctctg	gctcgggaca	ataaagcttg	tgacaggtcc			4720

<210> 38
 <211> 4992
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 233331.3

<220>
 <221> unsure

<222> 524-546, 3267-3287, 4712-4749, 4946, 4948-4949, 4953, 4977

<223> a, t, c, g, or other

<400> 38

ctacggagag	tcccgtatct	tcagagtaaa	agttgtttct	ggaattgac	tcgccaaaaa	60
ggacatcttt	ggagccagtg	atccgtatgt	gaaactttca	ttgtacgtag	cggatgagaa	120
tagagaactt	gcttttggtc	agacaaaaac	aattaaaaag	acactgaacc	caaaatggaa	180
tgaagaattt	tatttcaggg	taaaccctac	taatcacaga	ctcctatttg	aagtatttga	240
cgaaaaataga	ctgacacgag	acgacttctc	gggocagggtg	gacgtgcccc	ttagtcacct	300
tccgacagaa	gatccaacca	tggagcgacc	ctatacattt	aaggactttc	tcctcagacc	360
aagaagtcac	aagtctcgag	ttaagggatt	tttgcgattg	aaaatggcct	atatgccaaa	420
aaattggaggt	caagatgaag	aaaacagtg	ccagagggat	gacatggagc	atggatggga	480
agttgttgac	cggcttctca	gcaccaagag	gaannnnnnn	acttactatg	nnnnnnnnnn	540
nnnnnnccggg	tgggaagaaa	aagtgggaca	tttaggccga	gtgtcctcgg	tcaaccacaa	600
caaccggacc	actcagtggt	acagaccaag	cctgatggac	gtgtcctcgg	agtcggacaa	660
taacatcaga	cagatcaacc	aggagggcag	acaccggcgc	ttccgctccc	gcaggcacat	720
cagcgaagac	tgggagcccc	agccctcgga	gggcccggat	gtccccgagc	cttgggagac	780
catttcagag	gaagtgaata	tcgctggaga	ctctctcggt	ctggctctgc	ccccaccacc	840
ggcctcccca	ggatctcgga	ccagccctca	ggagctgtca	gaggaactaa	gcagaaggct	900
tcagatcaact	ccagactcca	atgggggaaca	gttcagctct	ttgattcaaa	gagaaccctc	960
ctcaaggttg	aggtcatgca	gtgtcaccca	cgcagttgca	gaacagggcc	atctaccacc	1020
gccatcagtg	gcctatgtac	ataccacgcc	gggtctgcct	tcaggctggg	aagaaagaaa	1080
agatgctaag	gggcccacat	actatgtcaa	tcataacaat	cgaaccacaa	cttggactcg	1140
acctatcatg	cagcttgcag	aagatgggtg	gtccggatca	gccacaaaca	gtaacaacca	1200
tctaactcag	cctcagatcc	gccggcctcg	tagcctcagc	tcgccaacag	taactttatc	1260
tgccccgctg	gaggggtgcca	aggactcacc	cgtactctgg	gctgtgaaag	acaccctttc	1320
caaccacag	tcaccacagc	catcacctta	caactccccc	aaaccacac	acaaagtcc	1380
acagagtttt	gccacccggc	tgggaatga	ggatagcgcc	aaacggccgg	cccttcttca	1440
ttgatcataa	cacaaagact	acaacctggg	aagatccacg	tttgaaattt	ccagtacata	1500
tgccgtcaaa	gacatcttta	aaccccaatg	accttgcccc	ccttctctct	ggctgggaag	1560
aaagaattca	cttggatggc	cgaacgtttt	atattgatca	taatagcaaa	attactcagt	1620
gggaagaccc	aagactgcag	aacccagcta	ttactggctc	ggctgtccct	tactccagag	1680
aatttaagca	gaaatatgac	tacttcagga	agaaattaaa	gaaacctgct	gatattccca	1740
ataggtttga	aatgaaactt	cacagaaaata	acataattga	agagtccctat	cggagaatta	1800
tgctcgtgaa	aagaccagat	gtcctaaaag	ctagactgtg	gattgagttt	gaatcagaga	1860
aaggtcttga	ctatgggggt	gtggccagag	aatgggtctt	cttactgtcc	aaagagatgt	1920
tcaaccctca	ctacggcctc	tttgagtact	ctgccacgga	caactacacc	cttcagatca	1980
accctaattc	aggcctctgt	aatgaggatc	atttgtccta	cttcactttt	attggaagag	2040
ttgtgggtct	ggccgtatct	catgggaagc	tcttagatgg	tttcttcatt	agaccatttt	2100
acaagatgat	gttgggaaag	cagataaccc	tgaatgacat	ggaatctgtg	gatagtgaat	2160
attacaactc	tttgaaatgg	atcctggaga	atgacctac	tgagctggac	ctcatgttct	2220
gcatagacga	agaaaacttt	ggcagacat	atcaagtgg	tttgaaagcc	aatgggtcag	2280
aaataatggt	cacaaatgaa	aacaaaaggg	aatataatga	cttagtcac	cagtggagat	2340
ttgtgaacag	ggtccagaag	cctctttgga	gggattcaca	gggattcaca	gaactacttc	2400
ctattgattt	gattaaaatt	tttgacgaaa	atgagctgga	gttgctcatg	tgccgcctcg	2460
gtgatgtgga	tgtgaatgac	tggagacagc	attctattta	caagaacggc	tactgcccaa	2520
accacccggt	cattcagtg	ttctggaagg	ctgtgtact	catggacgcc	gaaaagcgta	2580
tccggttact	gcagtttgtc	acagggacat	cgcgagtacc	tatgaatgga	tttgccgaac	2640
tttatgggtc	caatggctct	cagctgttta	caatagagca	atggggcagt	cctgagaaac	2700
tgcccagagc	tcacacatgc	tttaatcgcc	ttgacttacc	tccatatgaa	acctttgaag	2760
atttacgaga	gaaacttctc	atggccgtgg	aaaatgctca	aggatttgaa	ggggtggatt	2820
aagcaccctg	tgccctgggg	gtgggtgttc	ttcaagcaag	ttctgcttgc	acttttgc	2880
ttgcctaaca	gacttttgca	gagggcatgg	cagagagcag	ctgcaggcat	ggctccctgga	2940
gccgagcctt	caccacgcac	tcgtccaagt	tcggatgcgg	gaacctggtc	ccagcttgag	3000
ttcctgcctt	tcaccaccac	aattatcaac	tggttgatgt	gtacactaat	tacatttcag	3060
gaggacttaa	tgctatttat	gttgtgcctc	tcaggcgaac	gcccttaata	aatattttac	3120
atcctttcta	atgacaatga	atggaattaa	ctactcaaca	ggtatagtat	tacgactcat	3180
gtttactttt	taaaatgatt	tagaccgatt	ttcagatttt	atttcgttat	gattaaagat	3240
gtctcatgta	cttggaaaag	tgagcannnn	nnnnnnnnnn	nnnnnnnnnn	tttcatacca	3300
ggcttaatgt	caatgacatt	tttatttttg	aagtactctg	acacctccac	cctctacttt	3360
attagaattg	gaaggcaaat	ttttgtccaa	aaacctacag	acaagtactt	tgagagaatt	3420
tcacaatata	tattagacat	aatgataatt	ttttccatac	tcagaatgaa	aaactggata	3480
ttacgttttt	gttttgggg	ttttttgtac	aaatttagct	aatagctaca	ggctgagaga	3540
attgtaacat	agcatgacaa	attttgtgtt	gacttgaaag	gaatcacacc	attattcctt	3600
agaagtaatt	acatgtgttc	taacacattt	gagacaggg	tggactccca	tttctcatcc	3660
gagaaattac	ttaaccttcc	ctggcgctgt	acagtcactc	tttattctat	ttcctctttg	3720
ctgtttgtag	tagagacatt	ttgaatgaaa	cttggcactg	cttgattcaa	aactgtggaa	3780

accagatctg	tttagtctcc	tgtttgtatg	cgtttgctaa	tggtagctaa	ataaccagtt	3840
tttgttgtaa	atgcaccaat	totgaaggca	ctttatgtac	tacatggagg	tcatatctgg	3900
ttttgttttt	atTTTTTTat	catgaacatt	aaatgtgatg	atgatttctt	ttccctgcac	3960
acatctttcc	ggtgcaatat	ctatcaattg	tgaatctggc	tgctgggtga	taaaaacctg	4020
gatgtaaaagc	tgagcctaca	gacctgtcct	caccaactgt	tttgtgattt	ctactcaact	4080
acaaagattt	atttaaatgta	ctcttaattct	aactgagttt	tgttaccaat	gacctgttgc	4140
atgcttcaat	accgtgtact	gcctgagttg	tgctctctgt	gtgctagatt	aaaagtgaga	4200
cagagacttg	acttgatcct	ctgagctcaa	gctattgagc	tggtagtggc	agaggactga	4260
gggtacctgc	acagtttgat	tctttccac	gtgtaagtct	ccattgcaga	attgtcgtgc	4320
tttgagaaaa	cacctgaggg	agtgtgggag	ttgaacgacc	ctgctgtcct	ttttaacctg	4380
tgttgtccta	gacctgtcgc	gggcagtcag	gggacactag	agatttgatc	tcatgcgagt	4440
catcaatagg	acaaaaaagt	tgtgggtttg	ggagggtctgt	ttgttacata	aaaaggacct	4500
ttcgggtgta	gaaattgccc	ttttaccct	gccttgctg	gcatgtgaga	agccatggaa	4560
ggttggtggt	gtaaatgagt	tgtctaaaag	gtgtcagagg	cctgaggttt	ctaaaagaag	4620
gtagatttct	acagagctga	gtgttggttc	ctttttctta	ttggttgaaa	attacctggg	4680
agtgtcaga	aaacttagat	gctatgtaac	tnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	4740
nnnnnnnnnt	tcccgtcat	gagttttgac	tattggtgag	atgttttccg	ctacagttaa	4800
catgacaaat	gtctcagtgg	caaaaatccc	ctttttgtaa	gcccccatag	tctagaggca	4860
gttttctttt	taagaatcat	gccagagcct	gagtcagaca	gtatgctttc	ttgggtttttg	4920
agagtaattg	tgtaattgta	gagggngnna	tcnaattcta	acctaagaac	tgggatnctt	4980
ctgtcatctt	gt					4992

<210> 39

<211> 2398

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 474682.2

<400> 39

gccgcctctg	ctgggggtcta	ggctgtttct	ctcgcgccac	cactggccgc	cgccgcgagc	60
tccaggtgtc	ctagccgccc	agcctcgacg	ccgtccccgg	acccctgtgc	tctgcgcgaa	120
gccctggccc	cgggggcggg	ggcatggggc	aggggcgcgg	ggtgaagcgg	cttcccgcgg	180
ggcgtgact	gggcgggctt	cagccatgaa	gacctcata	gccgcctact	ccgggggtcct	240
gcgcggcgag	cgtcaggccg	aggctgaccg	gagccagcgc	tctcacggag	gacctgcgct	300
gtcgcgcgag	gggtctggga	gatggggcac	tggatccagc	atcctctccg	ccctccaggga	360
cctcttctct	gtcacctggc	tcaataggtc	caagggtgaa	aagcagctac	agggtcatctc	420
agtgtccag	tgggtcctgt	ccttccttgt	actgggagtg	gcctgcagtg	ccatcctcat	480
gtacatattc	tgcactgatt	gctggctcat	cgctgtgctc	tacttcaact	ggctgggtgtt	540
tgactggaac	acaccaaga	aagggtggcag	gaggtcacag	tgggtccgaa	actgggctgt	600
gtggcgctac	tttcgagact	actttcccat	ccagctgggtg	aagacacaca	acctgtctgac	660
caccaggaa	tatatctttg	gataccaccc	actgggtatc	atgggcctgg	gtgccttctg	720
caacttcagc	acagaggcca	cagaagttag	caagaagttc	ccaggcatac	ggccttacct	780
ggctacactg	gcaggcaact	tccgaatgcc	tgtgttgagg	gagtacctga	tgtctggagg	840
tatctgccct	gtcagccggg	acaccataga	ctatttgctt	tcaaagaatg	ggagtggcaa	900
tgctatcatc	atcgtggtcg	ggggtgcggc	tgagtctctg	agctccatgc	ctggcaagaa	960
tgagtcaccc	ctgcgggaacc	gcaagggtct	tgtgaaactg	gccctgcgtc	atggagctga	1020
cctggttccc	atctactcct	ttggagagaa	tgaagtgtac	aagcaggtga	tcttcgagga	1080
gggtcctctg	ggccgatggg	tccagaagaa	gttcagaaa	tacattgggt	tgcgcccatg	1140
catcttccat	ggtcgaggcc	tcttctctc	cgacacctgg	gggctgggtg	cctactccaa	1200
gcccatcacc	actggttggtg	gagagcccat	caccatcccc	aagctggagc	acccaacca	1260
gcaagacatc	gacctgtacc	acaccatgta	catggaggcc	ctggtgaagc	tcttcgacaa	1320
gcacaagacc	aagttcggcc	tcccggagac	tgaggctctg	gaggtgaact	gagccagcct	1380
tccggggcaa	ttccctggag	gaaccagctg	caaatcactt	ttttgctctg	taaatttgga	1440
agtgtcatgg	gtgtctgtgg	gttattttaa	agaaattata	acaattttgc	taaaccatta	1500
caatgttagg	tcttttttaa	gaaggaaaaa	gtcagtatct	caagttcttt	cacttccagc	1560
ttgccctgtt	ctaggtgggtg	gctaaatctg	ggcctaactc	gggtgggtca	gctaacctct	1620
cttcttccct	tcctgaagtg	acaaaggaaa	ctcagttctc	ttggggaaga	aggattgcca	1680
ttagtgactt	ggaccagtta	gatgattcac	ttttttcccc	tagggatgag	aggcgaaagc	1740
caactctcat	acaagccct	ttattgccac	taccccacgc	tcgtctagtc	ctgaaactgc	1800
aggaccagtt	tctctgccaa	ggggaggagt	tggagagcac	agttgcctcg	ttgtgtgagg	1860
gcagtagtag	gcatctggaa	tgctccagtt	tgatctccct	tctgccaccc	ctacctcacc	1920
cctagtcact	catatcgag	cctggactgg	cctccaggat	gaggatgggg	gtggcaatga	1980
cacctgcag	gggaaaggac	tgccccccat	gcaccattgc	agggaggatg	ccgccaccat	2040
gagctagggtg	gagtaactgg	tttttcttgg	gtggctgatg	acatggatgc	agcacagact	2100

```

cagccttggc ctggagcaca tgcttactgg tggcctcagt ttaccttccc cagatcctag 2160
attctggatg tgaggaagag atccctcttc agaagggggc tggccttctg agcagcagat 2220
tagttccaaa gcaggtggcc cccgaacca agcctcactt ttctgtgcct tcctgagggg 2280
gttggggcgg ggaggaaacc caaccctctc ctgtgtgttc tgttatctct tgatgagatc 2340
attgcaccat gtcagacttt tgtatatgcc ttgaaaataa atgaaagtga gaatcctc 2398

```

```

<210> 40
<211> 616
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 003161.7

```

```

<220>
<221> unsure
<222> 610
<223> a, t, c, g, or other

```

```

<400> 40
ctggtggaga atgctttgcg agtggtacc atcaacacag taggagattt tatgttattc 60
cttggcaagg tgctgatagt ctgcagcaca ggtttagctg ggattatgct gctcaactac 120
cagcaggact acacagtatg ggtgctgcct ctgatcatcg tctgcctctt tgctttccta 180
gtcgtcattt gcttcctgtc tttttatgaa atggtagtgg atgtattatt cttgtgtttt 240
gccattgata caaaatacaa tgatgggagc cctggcagag aattctatat ggataaagtg 300
ctgatggagt ttgtggaaaa cagtaggaaa gcaatgaaa aagctggtaa gggaggcgtc 360
gctgattcca gagagctaaa gccgatgctg aagaaaagg gactggtctc atgagcctg 420
aagaatgaac tcagaggagg ttgtttacat gaggttctcc cactcaccag ctgttgagag 480
tctgcgatta tgaagagcag gatcttatta cttcaatgaa agcatgtaac aagtttctca 540
aaccaccaac agccaagtgg atttgggtaca gtgcggctgt ctaataaata atcaaaagca 600
tttgatagan aaaaaa 616

```

```

<210> 41
<211> 1798
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 984248.1

```

```

<400> 41
gctgaacacag gttaagaata ttcttaattc cattatagat aattgcccc atgggacttg 60
aaatacaaca ccttgtgctg aaaacttcag gttggcaata tttgaagggt tcgttgtaga 120
agagtttaac attaactcct attttgactt acaaatcttg tttctcatca ctaaaatgct 180
tttgaattaa taatccaacc cacatgagct gagagttttt cttttgtag aaaagaaaca 240
gacatctttc tgtatgaaag tataaattgt atggttttag atacataaga attgacaaaa 300
gcgagcgaaa tctttgtact tctgagttct tgctgtatgt atgttttggt ttaaattctga 360
ttagggacac ccagcagctg gccgggattc ttggattgct ccttgggagt taagattgtc 420
aatactcctg tgaagcaagg gatttcagcc atagaacaaa gatttattgt tgccacctga 480
aaagtttaca agtattttat gtgtatttga tacattgctt gaaaagatga aatctgttaa 540
agattctttt cgatgtccag gttaagaaga aacctccttg tattgagtga aattatatgt 600
taaattgtatt agagaatgta ggtggatatag aaattgattt ttcttggtgt agaacaactc 660
agttcggcaa agtttaaaat ttgattaaac aagagaagtg gttcagggtg aagatggact 720
tgtttaggaag tgatcaagtc ctttaagtac ttgtttcttt ttcagggtgt gatgtggcca 780
ttccgaattt tgttgagagt ttggtttata attgtctctt ttgtcttggt agtaaacatt 840
catttgcaac agttttgaag gtgctgagtg gaaaaccgaa acacatggtt attgcgtatt 900
ggacctagaa tgaaataatt gcctcaatat ttaacaacaa gccattctta tctcaaagat 960
ttaaattccc gaatgtccca ttgcgcaatt atatgcaatt gaagtgaagca gcatgagcat 1020
ctgggtcatg agggccttca ttacgtaaa ttgtcacta aaaccagta gtactctac 1080
aaaatcttaa actgctgcag tgctcaagga gatggaatat ctttgtcatt ggtgctgagg 1140
agagcatttc ggtagaagac agttgcgcct gaagattgag tgtaaatcat tcaaacacgt 1200
ggttctcagt gttggctgta tacactttgt agtcactttg gaatgttga agacacatcg 1260
atgcttgggt tccgtatgcc aagattctga ttgtggtctg gaatatgagc tggtcataag 1320
gatttttaaa aactttctgg tcatttcaat atgctgccaa ggttgagaac cactgttgta 1380
aaattcacct tgagttttct catctgcaaa atagaaaaaa aaaaatcctt gctccctccc 1440

```

```

ttcactacct cacaaggata ttgagggtaa aggagaaaat aatgggaaag tgcttgtgcc 1500
gtggatgaaa agtgctatta aaagtcaaag gagtggtctg tttcaattca tagtatgac 1560
agggaaagtg taactgagta tactttgttg acttgggaaa cctggagcac tttctttggt 1620
tggttaacga agcatgcaga tgtggaagca gacgttacta ttatccctac tatgggtctt 1680
tgtcatactg agacaggctg ttttaattac ctgggttttac ataggaaaga agaaatatta 1740
aggcttaaaag tttgtaatga tcaatggctc ataattcatt aaatcttttc atacaagg 1798

```

<210> 42
 <211> 1183
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 196590.2

<220>
 <221> unsure
 <222> 550
 <223> a, t, c, g, or other

```

<400> 42
ggttgggatt acaggcatga gcaccatgcc cggcccctta ttttacttta tcctcctgat 60
tatttgaatt tggtacacta agcatgtatt ttataatcaa aaataattaa gattttaaac 120
aatgtatttg actactaaaa agcaaattat ataaatcagt tgaataataa tgttggttaa 180
gaggctgttt agcactaatt tgaccaaata tatagtcaaa gtttgattct acttgaattt 240
tttggaattt tgctgtttga ttactttatc tttgccttgt tctctgtgaa gtcttttctt 300
aaaaaagaaa cttatacaat ttagttcaca aaactttgtt gacctctttc tctgtagaaa 360
tgaaaactaa atatatataa ttgagaaata attctgatac tcttcattcc tataaaagta 420
attaagatag acctatagga ttgttgaact ttgctgcaa atatatagtaac cagtaaccac 480
agctagctgt aaaaattgaa aattcagttc agtcaaaact tagcctttat tttcaagtgc 540
ctcaaacagn cccactgggt gctattgggt accttactga ccagccaata taggctattt 600
ccgtcattat agaaagctct attggacaac attggtctag gacatatatt ttgtattttc 660
ccctcaccca ccatccaata atgagtaata gcacaaagta aaagtgactt aatttgaaat 720
tacttctggt tggctagttt gcttagctga tcaccaccaa catcataggt ctataaatca 780
cccaactaag atcaggggtg ttcatgga aaatctacac aaactattca ttaaaaacca 840
tagagccatg gactgtcatt tctgatttct gtttgattct ttgtggtcac cattgaatat 900
acaggggctt ctatacactc tggggagtat ctattctcag gtgagcaaaa taccgaatac 960
tgaatggaaa tcaactgtaa gtattaggac ttcatatgca acttgaattt ttggtgctgt 1020
cgggagctta gagcccaca atctgttttg gttacagttt atccctgtag gataaatgat 1080
ccatttaact attcatcaga ggtgctgtaa ttttaaatg tctcttgtct ccttcagtta 1140
attttcagaa ttaaaaacat accatgggaa aaaaaaaaaaaa aaa 1183

```

<210> 43
 <211> 1195
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 255109.1

<220>
 <221> unsure
 <222> 97
 <223> a, t, c, g, or other

```

<400> 43
atcaaaactt catgctgtac aacataaata tactatacaa tttttacttg tcaattaaaa 60
aagtaatcct aacattttaa aaggcaatgc ataaaanctg agaacagact ataacaactg 120
aaacaaactg ggcaaacatg agatgagaaa ccagccagca agtcaatcag aactctttct 180
tcactctgtc tacaatattt tgtatttata actgtaaatt agtgatatag gtttctactc 240
agagacttca ataatacagt gttatcaaag gacttgata gatttcagag aaagacacat 300
ttagaagatg gagagttctc cgttatgttc tatctgagag tcagtatgaa atgtcagatc 360
taaaagtaca taattcagag gtctatttca aatttaataat catttgagca taatttctcc 420
actgtcagag acgactgtta ttttattttc aatcaaatta aaagttgttt ttatgcatac 480
cttattttta gttatatgtt acttgtacat acgtagcagt acaagtgcac ataaatcctg 540

```

taagagtata	aatcctatag	aaatatatta	agctgataat	tatgtctgtt	ctgtttgatc	600
acagagttgc	aacaaatagg	cctcatttcc	taagttgagg	aaatgatatt	ctcattttat	660
atgagacttg	tggtgtggaa	tttcaaggta	gaacccaaat	gtgtggaatg	aatattttcaa	720
tgaagatgcg	ttctgctgct	aatagcagga	aatcccatct	agtggcttta	tttttcttta	780
acccgttatc	tcacatagcc	gatagatcca	aggctgggca	tctccagagt	tgctcaactc	840
agcaggccag	tggtatcacc	agcgaccctg	gaacttcata	gctcatctct	ctatcacaca	900
cagtatgtca	gctttcctga	gatggtaggg	tgacccttgc	agcagcttta	ggtttggtat	960
tctttcacia	caactcccaa	aggcaggaaa	aggatactcc	tttctcctgt	gtgcctttat	1020
aaggagcaac	taaactgttt	ccagagtgtt	cccagtaccc	actttctcac	acattggaat	1080
gaccgtggga	tcacatgggc	tcagacaagc	caggattcaa	cctttgcaga	gtgggcgtga	1140
ggcacatggg	aagaaaagga	gcaaaatcat	gtatttttaa	aaataaagaa	atgggt	1195

<210> 44
 <211> 947
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 238622.1

<400> 44						
caggcccaga	agcctagtgg	gtaagaatgg	ttttgggggc	caagcctggg	gccctgctgc	60
tctctgtagc	ctttggacac	tgctacctgc	atctggctga	tccagctcca	cccatggctc	120
aaagtgcccc	agatacagtt	caggccactg	ccttggaggga	cacaagctat	aagacttggt	180
ggcttcccca	tggtgttatg	tctgcaggag	aacagaatgc	aagagtgaag	aaggcttgac	240
agcttccacc	taggtttcag	agggtgtatg	tggtgaaaag	cctgagtggc	cagggaaaag	300
cctgccacaa	gggtcgagct	cctacagaga	gactctacta	gaacagtgct	catggaaaat	360
gtgggggttg	agcccctgca	cagagtcatc	atggtactgc	tgagtgggat	tgtgggaagg	420
tggtcgagaa	tggttagagc	accagcggct	tgtactctga	acctggaaaa	gcaaccggca	480
ctcaactcca	accagttaga	gtagccatgg	gagctgcacc	tgcaagacca	cagggatggg	540
tatgcaccaa	ggccttggca	tcccacccct	tccatcactg	tgccctggat	gcagaatatg	600
gagacaaagg	agattatttt	ggagctctaa	gatttaatga	cagccctgct	gggtgtcaga	660
cttgtgtggt	gcctgttgcc	cctttctttt	ggctgattta	tctcttttgg	aattggaata	720
tttacccaat	gcctggatca	ccattgtatc	ttgggaagtaa	ataacttgtt	tttttatctt	780
acaggctcat	agttggaaga	aacgtgcctt	gagctctcaga	ttttggaatt	ttgagttgat	840
gctgaaatga	gttgagactt	ttgggggaact	attgggaagg	gatgcttgta	ttctgcagtg	900
caaaaaggat	gtgagatttg	ttgggggggtc	atgggcagaa	tgaacaa		947

<210> 45
 <211> 6549
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 334385.3

<220>
 <221> unsure
 <222> 62, 2192
 <223> a, t, c, g, or other

<400> 45						
atcttgccga	atcctgctct	ggagacaggg	tgggcacago	tctgtgttca	gaggcctggg	60
gnccactgct	ggtgttgtgc	tgggacaggg	gatggagcag	gggtgcctct	gcctcttggg	120
tgtaacctcc	tcccctggag	caactgaggg	ctggctgtgt	gtctctccag	tcccgcagcg	180
tggacaagca	gcatgccgtc	atcaactacg	accaggacag	ggacgagcac	tgggtgaagg	240
acctgggcag	cctcaatggg	acgtttgtga	atgacatgcg	caccccgagc	cagaagtacg	300
tcacgctgaa	gctcaacgat	gtcatccgct	tcggctacga	ttccaacatg	tatgtgctgg	360
agcgtgtgca	gcaccgagtc	ccggaggagg	cactcaagca	tgaaggtac	accagccagc	420
tgcaaggtag	cgtgaagggt	ttggcgccca	agaggagcga	ggcactgccg	gaacacacac	480
catactgcga	ggcctcgaa	cccaggccgg	agaaggggga	ccggagacca	ggaacagagg	540
cagcctctta	ccgcacaccc	ctgtatgggc	agccctcctg	gtgggggtgag	gacgatggta	600
gcacgctgcc	tgacgcccag	cgccagggag	agccctaccc	agagcgcccc	aagggaacccg	660
tgcaagcaga	cggggagctc	cagggcttcc	gcgcccctgc	tgagcctcag	ggctgctcgt	720
tccggcggga	gccagctac	ttcgagatcc	ccacgaagga	gaccccgag	ccgtcgcagc	780

ccccgaggt	gccggcacac	gagatgcccc	cgaaggatgc	agaggcaggt	gggggaggag	840
cggccctgt	ggtgcagagc	cacgcctcct	tcaccatcga	gtttgatgac	tgcagccctg	900
gcaagatgaa	gatcaaggac	catatcacca	agttttccct	gcgccagcgg	cggcccccg	960
gcaaggaggc	cacacctggc	gagatggtgt	cggctgagac	caaggtggcc	gactggctgg	1020
tgcagaatga	cccagcctg	ctgcaccggg	ttggccctgg	ggatgaccgc	cacagcacca	1080
agagcgacct	gcctgtccac	accgcacccc	tgaaggggcca	caagcacgag	gacggcacgc	1140
agagtgactc	agaggacccc	ctggccaagg	cggcctcggc	cgctgggggtg	cccttggagg	1200
ccagcgggga	gcaggtgcgg	ctgcagaggc	agatcaagcg	ggacccccag	gagctactac	1260
ataaccagca	ggcctttgtc	atcgagttct	tcgacgagga	cacaccccga	aagaagcgct	1320
cccagtcctt	cacgcacagc	ccgtccgggg	accccaaggc	cgacaagcgc	cgtggcccaa	1380
cgccggccga	tagggaccgc	cccagtgctc	cagccccagt	ccaggcaggg	ggccgcagct	1440
cggggccaca	gagggccggc	tcgtctcaagc	gggagaagac	agaggaaagg	ctgggcagcc	1500
cctgcgccgc	ctccgcaacc	cctgcgggag	ccttcggaag	cgctggggcg	cgctcccgcc	1560
tggccaggga	cttcagtgcc	cagtgtctgc	gggagagctc	cccgcccgcc	cggcccgacc	1620
ccgagaaggt	tcctccgggtg	ctgcgccgctc	cctgcacccc	catgggacca	gccccgtggg	1680
ccccccgacc	ccaccgccc	ccccacggga	ccccagctg	accaaggcac	ggaaacagga	1740
ggaggatgac	agcctcagtg	acgcaggaca	tacaccatcg	agacgaggcg	caggacacgg	1800
aggtggaggga	ggctcggaag	atgatcgacc	aggtctttgg	ggtgttgagg	tccccgaa	1860
tctccagggc	atcttcggcc	acctttcgcc	cagtcacag	aggggacaga	gatgagtctg	1920
atgacggggg	cgtggcccag	cggatggcgc	tactgcagga	gtttgcctcc	cggccactgg	1980
gtgcggcccc	ccaggcggag	caccagggcc	tcccgggtgc	gggctccctc	gggggtcaga	2040
agtgggtgtc	ccgctggggc	agcctggctg	acagctactc	agacccgggc	ctcacagagg	2100
atggcctggg	acgtagaggc	ggggagccgg	aggggtccct	gcctgtgcgc	atgcggcgac	2160
ggctccctca	gctgccagtg	gagagggctg	ancagccctg	cgggcccaga	gagcagcagg	2220
aggagtgggc	ctggggccacc	ggagctggac	agtgagcagc	ccagcccgct	cttcggccag	2280
gaggagtggg	atctctgacg	cctcagcgat	gccagtgggt	cggacggggg	ccgaggcccc	2340
gagccagggg	tggagccaca	ggacagcaga	cgcaggagcc	cccaggaggg	gcccacgtgg	2400
agcaggggtc	ggcgctcacc	aaggggcccc	ggggagccaa	ctcccgctc	tttcttcatt	2460
ggggaccaga	atggggacgc	tgtgttatct	aggaacttgc	ttgcggtcc	aggggatggg	2520
gagggcctag	ggcagacagc	ccagcccagc	ccccagcac	gggatggcgt	ctatgtcagt	2580
gccaatggga	gaatggtcat	ccagctacgc	cctggacggg	ccccagaacc	cgacggccct	2640
gccccagcct	ttctccggca	agagagcttc	actaaggagc	cagccagtgg	tccccccagc	2700
gccccgcaag	cccccccaca	tctccagcca	cccgttctta	caggacctgg	ccgctacccg	2760
ggccgcacgc	atggacttcc	actcccagga	caccacactg	atcttgaagg	agacggagac	2820
ggccctgggc	gcccctggag	cccactcctc	ctctaattct	gtggatgccg	agtgtgaggg	2880
gggcagcacc	ccgaggccgc	cggaggacgc	cctgtctggg	gactcggacg	tggacacagc	2940
cagcaccgtc	agcctgcgtg	gtggcaagag	cgggcccagc	cccacaacc	cccagcctct	3000
gcgggcacag	aaggagatgt	gcgcattccc	gccagctgca	caggaccggg	gaggcacccg	3060
cctggctcagt	gcccgtgagc	agtccctcaga	gaggcagcat	caccacttgg	gcccagcggg	3120
catggggcgt	ggagagccgg	tacggcgctc	agccataagg	cgtggccaca	ggccccgagg	3180
gtccctggat	tggcccagtg	aggagcgtgg	ccctgtcctc	gcccacctac	ccagctcaga	3240
tgtgatggcc	tccaaccacg	aaacccctga	ggccaccggg	gcaggacggc	taggttctcg	3300
ccggaacaca	gcgccccac	gcgcattccc	agctgcccgg	gaggagcaga	gcccgtagctc	3360
agccagctcc	cagaaggcgg	cgcaggcctt	gaccgcgtcc	aacagcctgt	ccacccctcg	3420
ccccacacgg	gcctcccggc	tgaggcgggg	ccggctgggg	gacgcttcag	acactgaggc	3480
tgcggatggg	gagcgggggt	ccctggggcaa	ccctgagccc	gtgggcccgg	cagctgctga	3540
gcaggccaag	aagctgtcac	gcctggacat	cctggccatg	ccccggaagc	gggcccggctc	3600
cttcacaggg	actagtgcgc	ccgaggcagc	ccctgcccgc	accagcttct	ctggcccgag	3660
tgtggagtgg	tgctgtgcca	gcccgaagcc	caccatggcc	gaagcacggg	ctgtctccag	3720
gaaggctgcc	aacacagcca	ccaccacggg	tccccgccag	cccttcagca	gggcccgcctc	3780
gggcagtgcc	cgatacacct	ccaccactca	gaccccagg	gctggcagct	ccagccgggc	3840
tcgttcccg	gcccccgccc	ccggggacac	ggacgacgat	gaggaggagc	ctgaccctta	3900
tggtttcac	gtgcagacgg	cagagattgc	ggagattggc	aggctgagcc	agacgctggg	3960
gaaggacgtg	gccatcctag	cccaggagat	ccacgatgtg	gctggggacg	gtgacacact	4020
gggtcctctg	gagcctgcc	acagcgcctc	cctcagcaac	atgccagca	ccccgcctc	4080
gaccatctct	gcccgggagg	agctgggtga	gcgcattccc	gaggccagcc	tcaacttcca	4140
gaagtgccg	cccggctcgc	tgaactctcg	ggactttgac	cagaacatga	acgacagctg	4200
tgaggacgcc	ctggccaaca	agacgcggcc	tcggaaccga	gaggaggtga	tcttcgataa	4260
cctgatgctg	aaccgggtgt	cccagctgtc	gcaggccatc	cgtgagaaca	cagagcacct	4320
tgcggagaag	atgaagatcc	tctttcagaa	cacagggaga	gcttgggagg	acctggaagc	4380
caggatcaac	gcccagaacg	aggtgcccc	cetgaagaca	tctaacaagg	aatcagctc	4440
catcttgaag	gaactgaggc	gggtgcagaa	acagctggaa	gttatcaatg	ccatcggtga	4500
ccccagtggg	agcctggacc	tgctcacagg	aaacaggagc	ttggccagct	ctgcacagcc	4560
ggggctgggg	aagggccggc	tggctgcccc	gagcccaccc	tcacccgcct	cagccgaggc	4620
cctgctgcca	gcccctgccc	tgaggaattt	cccacagcgg	gccagctgtg	ggcctcccg	4680
cctcccgacc	cccacttcc	tcctgatgac	cgagaggttc	ctgatctagg	ccccagacct	4740
ggccaggcca	gcctccctgt	gcgtgtgcgt	ctctgccttc	cgctcccgcc	acaccgcct	4800


```

gcctggccgc aggtggttct cctgaagac cccacatgt gccatatccc tgtgggcggg 4860
tgccctccac gcccttgccc cctcgtcagc tcccagccag caccctactc accctgtcca 4920
gccccatggc cacccccacc cctgectcgc ccctacagg cctctgggcc cagctcctgg 4980
ccaggctgct gccaaagtca agcctcaag ggcattaccc cgccctctct tcatcactgt 5040
tatttttgtc ttagcttta aaggaaagag ttgttggtgc cattgcagggt gccccctcca 5100
ggcctgactg gctccgccag gactaacct gccataaccc tttgtgctgg cctgcggcca 5160
gggcagagga agagaggtcg actgtggggt cathttgtgc caaacatgga ggtgggcagg 5220
ctcacctgtt cctgggactg tctgagatgg cagggcactt gccctgggtg cccccacctg 5280
accccaggcc ttttataggc aggagcccca ctgcttccag cctctgggtg caacacagtt 5340
gccaaaccca ttgagcttgg ggctgccctg tggaggcctc ctgggtatgg accaggggct 5400
tgttgagagc tgagccatgc acacaggtgc agacaccccc caactcccat gcacacggct 5460
agtccaggcg cctccacgct gcaccgtgag gactgcaggg catgtccccg tgaggggcta 5520
tgggcctctg taggtgggct tccaaggtcc tgggtgcagc cgggtgcatg gcagcccttc 5580
tggcgggggt gagcgcagca ccaaagtcac tgggaagccg gtttccggaa gctcgcagct 5640
tggcctgcac cacacgccct ccccttttgg cttaacgcca tcaggcctca agtgggcatg 5700
ggggcaggga cgggcccagg aactgttggt ttctcaggat tctttcagct gggaacatgg 5760
caggtagaca gagcttggtg cctctgccgt ggccctgtct ggggcagccc gtgttgccgg 5820
agcctctaag ccaaagagcc cgttgggcgt ggttggtggg ggtggacgtg ggggtgtccc 5880
acctggacca gactggcgtg ggtgagctcc acaccctgcc tggcaatggt atgagagtcg 5940
gacctggaca gggccagctg ctgggggagc ggcactgggg actggaggct ggaagcgggt 6000
ggtgtgtgtc cctgttttac ttttagctga gctggggttg ggtgtacggg ttctgttccct 6060
ctgagccctg cgcccaccct gatgtttacg tbtgtgtgtg agggggggcg ggggtggcag 6120
gtgtcccccc ctgggtcccc gatgtttacg ctgctgtctg tatggaggag gtgctagccc 6180
ggtccaccgg gctgctgccc acccctgcat gccccagttg cccaccccg cctcggcagt ggctgtgcaa 6240
acatgaagtg gtcacgcttc atccacggct ccttcccacc cctcggcagt ggctgtgcaa 6300
tgttttaagt tcacaagttc ctgctctccc ccacactgag ctcttttgtt cctccccctc 6360
cagcctttgc ctgggaactg gtccttgttt gccgggcttc tcggagggtt cactgtacat 6420
tcgttctcag gtggtcttgt ggctgtcttt cggaaaatgg ttattttata tgatttgtca 6480
tggaatttgt tctaataaat cattcttcta tcacatggca gcacgctgga gcctgtcaaa 6540
aaaaaaaaa

```

<210> 46
<211> 4365
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 998997.1

```

<400> 46
ggaggaggag aggtcggagc cgtctccagg agcccttaga gaccgagtcc cggcggcgac 60
ggcggggcag cgcaccggca ggccgattca ttccacttaa aacctgaaaa cattggacca 120
cacaagtctt tactgatttc aggtaaaaac aataattgaa gatgtccagc aaaacagcaa 180
gcaccaacaa tatagcccag gcaaggagaa ctgtgcagca gttaagatta gaagcctcca 240
ttgaaagaat aaagggtttcg aaggcatcag cggacctcat gtcctactgt gaggaacatg 300
ccaggagtga ccctttgtcg ataggaatac caacttcaga aaaccttttc aaggataaaa 360
aaacttgcac catcttatag tggaaatagc aaacagctcc tcgcctcttc ccaacaacgc 420
aaattatgag cagctccttg aagagattta ccttcagctt atttggtaac cactgctaatt 480
aactaaaatg ttctcagctt ggaataatgg actctgaagt ctctattttc caagttgtcc 540
tttctcttaa aatacccttt actgatttaa tacagaataa caatcttatt ttccacttgg 600
taactatggc tttatgttgg gttactgttt aaggaaagtt gatctgggcc tttttaaaaa 660
cataattata tacttttaga atacaaggga ttccgatatg tcaggacctc aatggcctaa 720
gcacctgtca aattaaaatt ccaaaattca ttgaaatcct aaagccttga tattatatcc 780
tttataaggc gtgtgccagc ctgtatagta tataagagag aggggtgttt gtgtgtatat 840
atatatgcct ttgtgtatac acttatcaaa gctattttct tatgaaaacg tccctctctc 900
catacatca gtttctcagt tccagaagtt atacctttat tttgagctgt gtagaggtag 960
aataaaaaat tcctttcata tcgttattgt acaaaaagta aagagtatcc taaagattgt 1020
attcattgta atcaagtaat gcaatcatct ctctctctct gaaatcttgc tggacctctt 1080
aggctacaat aaactgtacc aaactaaact gacagtctct cgataatatg aaacattaat 1140
ttacaaggac ccgttagggc ttcaatgatg ctgagtctgg aaaaggggag gagacccttg 1200
ggaggactcc aggcagctgt ctcattgtct ctcatgttct ctactggatt agggatagcg 1260
acctctgaaa tctccaccct gatgattgga atgaaacgga gtgaacatga gccagctga 1320
gagaggagca ggaatgtgtg aaaaacagct gctctccttg tcccagcttt gtgattgagc 1380
cctctgtctt gctctctctg ccttccctgt gtctttcttc tcttaccaga gcactctgtt 1440
gcagaggtaa cattaccttc cccaggtgga atacggtgag gaaaaaaaaa 1500
attaaaaaaa aaatgcaagc tgtcaggatg ctttaagctt tttcagacat ctgcagtttc 1560

```

```

atccctacct tgttcacata ccatccaaga ggcacatagg ctaccaaga gagccttggga 1620
ttcagtggtta cactccttgg gcccaagggc ttttagcagct ggatatgggg ttccttgatt 1680
ttcctctggg cccaaatata gccctcacac tcttggaatt tccagggtatg ggggttagccc 1740
caaaaggagg aatctcctat ggccaataag gtatcttgac ttatcaaag tagaagagag 1800
ggtcactctg gagtcaaatc atacactagg cctttgatgc ttaattctt cttcagttca 1860
ttaaaagtaa ctactaagga aaggttaaaa acttcccctc aaaaaggaat caacccagg 1920
aagtaattat ttacaacgat tttcccaaat tttgtacaat ctgtcctgga aagcaaaccc 1980
cttttaaaat ctaatgtctg ggctttgagt attagctcat ttaggggtgga caaatgcatt 2040
actgttttca aactgctcac atttattcag tatttctcca agttgctatc tactcagcct 2100
tatgaatgcc cctcgctttt ctaaggccat gtgaaaatca cggcactgcc cttagccttg 2160
tgtcatctgc tttttcgttc tgcgatatgc ccagttccca aatcaattat aggtacctgt 2220
ttaggagaga ggaagatttt acctctcaaa ggggtgagatt tgaattttac actaaaaaga 2280
caactttaca tttaatgctt cacttaatga gacattcttt tttttataag tctatttttc 2340
tactcagttt cagaacacta atctgatttt cactctgatt tttaacgttt ctttaaatat 2400
ttataatgta gcttctttca aaatattttc atgaaaaatt acttttatta taccattatg 2460
tgcatgttat tggtagcagg catagtttat tatttagtac tgaacatgc tcttttacct 2520
aacagtaaac aagtatgttt tgatatatat ctgttaatat gcttatagtg gtaagaaatg 2580
gacttgagggt cccaggagat ttcattttat tcacctgggt cagatacaat aaaggctatg 2640
agtataaata cataacttcc taaccagggt tagggcatgt tcatgaatat caaatctttt 2700
gatgctggac ccaagagagg aaaagttgta gctaaatgtt gatttactta taactagacg 2760
tctatgtgag aaaaatatatg tatacatata tatgatatgc agaagtcact ttttttatca 2820
ggctttattc tccttacaaa gccacagttt aactgtctgc aacagttggg ttatgttaat 2880
gatagacaaa taccagtggt ttgttacttt ttccaactac cactgtaatg ataacttttc 2940
tcacgtatat acatgcaact tcttggtctc atttccatga agctgtttca atatatcag 3000
tatactttgt ccttaatgct gcttctgtta acagtgatct ctttcttttt ttcattctta 3060
tatcttcatt agttcatcat aaatctgtcc agttgaggcc tcaggaccac ggcagatttt 3120
catgactccg aagtatttta cagaacatt ttttaataa gggaaatatt ttatatacca 3180
gatggttcac aagtgatggc tcatagctag ttttttttt tcttctaaaa aatgtcaggt 3240
ttttaaaaatc atttacctta ttaaaatgaa aagtgccata ctttaacttt aaaggaaaga 3300
cctgacttgc tttttctcta tttagactgt ttttgacttt tactaatctt taaactatca 3360
ggaaaaaaac caaaacttta taccaatgat ttagtaattt tgaggcatag ggtagcttac 3420
gtagtggagg atgtgccaaa tattctcttc aaatgccacc ttctcaattt ataactaaaa 3480
tagtgttatc tgactaattc ctctgaattt tgatgtaaga tctatatagg ccccaaaaat 3540
gatcgtagta catgccagtc atttctcagt gaaataaaca caataccaga gtacattatg 3600
ggttttattg ctttctttta tggtagacct gttaatgggg aaaaaataca tcaaatcaaa 3660
tagaatctta tatctgtatg ttaaaataga gcacttacct gaagtcagtg gcctggatca 3720
tagccctgga tcatttccca gtctgtcctg tgctgtgtga ccttgacaaa ggcgcttcac 3780
ctctctgggc ctctatttct ccatttgtaa aacaagtggc tgcagtagat gatggctgag 3840
agcccttctc gttccagat gccttggtcc aaagacccca cccctctgct ggtcctgcca 3900
acgtgttggg gctataagct gcttcagata taaaattggg ttatctataa tgtttgttca 3960
tttaatagct tctaaaaggc ctttttgtaa tacagtgcct tttttctagt tttatggact 4020
tgattactgt aataatgtct tgttttttag catgtaacta caaacagata ttctcttgat 4080
gtcttagtaa atttctttt gatatacat tgatgagatt ttgttgttat gtaatatctt 4140
ttggctacgc atctgtccag catcttatta accataatc tgtgatcatt atttggaat 4200
atgtcctatg gaaagaataa aagcatgtac ttcacagcta gcatgttcac agatttgaaa 4260
gaagtttcat taaaagcacc attgctttct gtactgcgtc agtgcctcat tgtatcatcc 4320
tacttgtgtt ttgtccaata aatgaataaa agaccatttc tcttc 4365

```

<210> 47
 <211> 2321
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 200578.1

<220>
 <221> unsure
 <222> 171
 <223> a, t, c, g, or other

<400> 47
 gagcaggtat ctcttttgca gtggtgactg tattttgagt acctgtgtg acaggtatt 60
 attacagcat cttgtgggaa aacctattag gctttgcat gttaaagctg tataatttgt 120
 tgggttgtga gtggtctgac ttaaatgtgt attataaaat ttagacatca nattttccta 180
 ctaactaact ttattagatg catacttgga agcacagtca tatcacactg ggaggcaatg 240

```

caatgtgggtt acctggctcct aggtttgaac tgtcttattt caaaagattt ctgaattaat 300
ttttccctag aatttctcct tcattccaaa gtacaaacat actttgaaga atgaaacaga 360
ttgttcccat gaatgtatgc tcatactcga ctagaacaga tctatgttaa atgactgtgt 420
atatgaatta tttcaagtac taccctcaat aactttctta ttgctctgaa agaagaaaag 480
caatgtaaat cactatgatt attgcacaaa caaccagaat tctccaacaa ttttaagtaa 540
tctgacccctc ttcttggaga aaattgttac ctaatagttt ttccttatga atgttattac 600
tactgggtata aatcaaattt ctataaattt cctacttaag tcttaagaac tgggttcttc 660
ctttgatgtt attcatgttc agaaaggaaa caacacttta ctcttttagg acaattccta 720
gaatctatag tagtatcagg atatatattt ctttaaaata tattttgggt attttgaata 780
cagacattgg ctccaaattt tcatctttgc acaatagtat gacttttcac tagaacttct 840
caacatttgg gaactttgca aatatgagca tcatatgtgt taaggctgta tcatttaatg 900
ctatgagata cattgttttc tccctatgcc aaacagggtga acaaacgtag ttgtttttta 960
ctgatactaa atgttggcta cctgtgattt tatagtatgc acatgtcaga aaaaggcaag 1020
acaaatggcc tcttgtactg aatacttcgg caaacttatt gggcttctcat tttctgacag 1080
acaggatttg actcaatatt tgtagagctt gcgtagaatg gattacatgg tagtgatgca 1140
ctggtagaaa tgggtttttag ttattgactc agaattcctc tcaggatgaa tcttttatgt 1200
ctttttattg taagcatatc tgaatttact ttataaagat ggttttagaa agctttgtct 1260
aaaaatttgg cctaggaatg gtaacttcat tttcagttgc caaggggtag aaaaataata 1320
tgtgtgttgt tatgtttatg ttaacatatt attaggtact atctatgaat gtatttaaat 1380
attttccata ttctgtgaca agcatttata atttgcaaca agtggagtcc atttagccca 1440
gtgggaaagt cttggaactc aggttaccct tgaaggatat gctggcagcc atctctttga 1500
tctgtgctta aactgtaat tatatgccag ctaaattcct aacttggatc tggaaatgcat 1560
tagttatgac cttgtaccat tcccagaatt tcaggggcat cgtgggtttg gtctagtgat 1620
tgaaaacaca agaacagaga gatccagctg aaaaagagtg atcctcaata tcctaactaa 1680
ctggtcctca actcaagcag agtttcttca ctctggcact gtgatcatga aacttagtag 1740
aggggattgt gtgtatttta tacaaattta atacaatgtc ttacattgat aaaattctta 1800
aagagcaaaa cctgatttta tttctgcctc cacattccaa tcatattaga actaagatat 1860
ttatctatga agatataaat ggtgcagaga gactttcctc tgtggattgc gttgtttctt 1920
agggttccta gcaactgatgc ctgcacaagc atgtgatatg tgaaataaaa tggattcttc 1980
tatagctaaa tgagttccct ctggggagag ttctgggtact gcaatcacia tgccagatgg 2040
tgtttatggg ctatttttgt aagtaagtgg taagatgcta tgaagtaagt gtgtttgttt 2100
tcatcttatg gaaactcttg atgcatgtgc ttttgtatgg aataaatttt ggtgcaatat 2160
gatgtcattc aactttgcat tgaattgaat tttggttgta tttatatgta ttatacctgt 2220
cacgttctta gttgcttcaa ccattttata accatttttg tacatatatt acttgaaaat 2280
attttaaatg gaaatttaaa taaacatttg atagtttaca t 2321

```

<210> 48
 <211> 2753
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 208134.1

<220>
 <221> unsure
 <222> 716, 1782, 1793, 1797, 1801, 1804-1806, 1808-1809
 <223> a, t, c, g, or other

```

<400> 48
gttcgataaa attttctgca gtgagaaatg acagactgag tgccctgacaa ttttagccac 60
atatgaagta tgcaagtaaa gattcagtc ttaatgtcat ctatatcatg gtataaaagc 120
tcaacaagta tcttataatt tggagttaac tttataaagt aagaagagtt tggatatctt 180
gataaaagat tttcatgttt gctgcttttt ttataataaa aatcccaaca ttttgccatc 240
ttatgttttag ctacatgaac ttcgcaattt catcggtcca ttctaatagac cacctaaaag 300
tctcaactct ttgaatatgt ctttattagc tccctaaact ggtattctaa cagttttagca 360
gcacttatat ttattaatgc tttacatttt taccctttt tgtgtaaaaca caaatacacc 420
catgcatata cacacaaaca ttattgtcct tgtgagggtt tgggggaaat gaaaaatagt 480
acctttctcc tcttcttttg attccttagt tcccaaatag actggtgcta gtcatttagt 540
catctgtaaa tttcgaaatg tagtttgatt aaatgtgaac tgaattctca gcaatgaaaa 600
atgtcaagtt gtaattcatc aataatata aataatata tttgtaaaaca gattacattt 660
gaacacctaa ataagtattt gtttcataat cattacatgc ttgtttatga tttacnaaga 720
tttggtagag aaaagtacag tccctaaggc atatatatgc caatgcatta aactactcag 780
cttttgtgcc agctcagggt ttcataggaa caggaaatgtg gaataccagc tttttacttt 840
aattatactt ttatgctgaa tttttcttcc agttaaacct ttaattacac tagtatgtaa 900
agtagttact gagaaaaata agtttttgat ttcccttctg ttgatctgta acatttttaa 960

```

atgaagctat	ttaacacatg	acatgcta	gttactta	ggattcctat	gtatttcatt	1020
aaaaaaaaag	ctcccacctg	tgtaaagaca	gctaaatatt	tcttgatgtt	ggcttgagga	1080
ccaagtggag	catcttgcca	gttaagcaag	ttttatatca	gaggaccaa	tggttaagaa	1140
gagaatttgt	acatttcttg	agcttcccca	tgtagaagctt	gggttcagta	ctatcctatt	1200
actatccatc	ttcataatga	gtgaagcaaa	ctgaaagggg	attcataatc	ttttttctta	1260
tctgaacaga	aaaactaatg	aaaatcaaca	ataaatcttt	attttaattt	tcattcaaca	1320
gctgaaaaac	catgtctgtt	gaccacattg	gaccattggc	tagttaaaat	ccataaaatt	1380
ccctataaac	caatgaaaag	aaacttgtct	ggcaataatt	tccaacattt	taaattctaa	1440
tttttagtta	caaagaaaaa	ggatagaatg	aggcttttca	aggaaattctt	gctcatccct	1500
tcaattat	ggcaggtaaa	acagtcctag	aatcagctt	cctttttggg	tttattacta	1560
ttaaatagat	actttcata	aaatggaaac	acttttcctc	aaaacattaa	ttcaaaacat	1620
actccttata	ttaaggatta	tagcaccata	ttttttgtat	attccctatg	tgtaactttt	1680
tcctgttggg	atgtgatatt	tttcatttaa	tatgactatc	tgctgggtgt	ggggccaata	1740
gatttggtaa	tattctgtgg	atgtgtctat	gtataggtgt	anatataat	atntatnttt	1800
ntgnmntnnc	cccagcta	tacctcaaat	gtgtgattgt	ttaatatata	ccacactatg	1860
tttgacacaga	gcagggtctc	catttagcagt	ggatattttt	atgtctgact	ttgaaaatca	1920
gtcaacacaa	tttcattggg	gtgaattatt	tggtgtctct	tttcataatt	taatggagag	1980
attcctatta	taaggcccat	gcttcaacaa	taattatata	tttctataatc	cagccatctg	2040
gaaatacata	ggggtaagaa	gtatttcttg	aaatgtcctt	gtttagtaag	ttagtaaaaa	2100
ctgggatgac	tagttgcaa	gatgtcttgt	aactgcatag	cagatgacac	ctggcatggc	2160
aagtctcat	cacttcagca	caacactctg	tacatttcag	tctgatattc	tactttgcca	2220
tttaaggaca	ccattaaaat	catagagatt	ttcagtgaca	ttggagtatt	gtaattatta	2280
ctttcaaaaa	attattttta	ataggatgat	taaaccaatg	agaagaaaca	cacataaatg	2340
atattttgca	gtttatctgt	attaagaaat	gcttcttgcc	aatttctagt	tttagttttt	2400
ggatttgctac	ataagacttt	ctttccattt	actttatgtg	tttttaaaag	ctgcaggtaa	2460
tttttaagggt	ttgatggaat	tataatggaa	gccttggtata	agttaaatga	aattggtaaa	2520
ggagaagctta	ctttgtctat	aatgcattca	ggattaaaaa	ttagatttca	aaatgaaatg	2580
tctgatttgt	aaaatattta	atgttatatc	agacttacat	aaaattttct	gtgagaactc	2640
aaatgcattt	gattttta	gaatgttctg	aatgaaatat	gaatttttgt	ctttcagctc	2700
ctgtagttta	tctcaatata	ttaataaaaa	ggtctgttct	cactgtaaaa	aaa	2753

<210> 49
 <211> 1927
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 153659.2

<400> 49	gggcagctcc	accctgggag	ggactgtggc	ccaggctactg	cccgggtgct	actttatggg	60
	cagcagctca	gttgagttag	agtctggaag	acctcagaag	acctcctgtc	ctatgaggcc	120
	ctcccattgg	ctttaggggg	attataaaac	taatcatcaa	agccaagaag	gcaagagcaa	180
	gcatgtaccg	ctgaaaacac	aagataactg	cataagtaat	gactttcagt	gcagattcat	240
	agctaaccce	taaactgctg	gggcaaaaat	catcttggaa	ggctctgaac	ctcagaaagg	300
	attcacaaga	cgatctgccg	accctctggg	agaaaatcca	gcaagatgca	agccttcaga	360
	atctgggatg	ttaaccagaa	gaccttctat	ctgaggaaca	accaactagt	tgctggatac	420
	ttgcaaggac	caaattgtcaa	tttagaagaa	aagatagatg	tggtacccat	tgagcctcat	480
	gctctgttct	tggaatcca	tggaagggaag	atgtgcctgt	cctgtgtcaa	gtctggtgat	540
	gagaccagag	tccagctgga	ggcagttaac	atcactgacc	tgagcgagaa	cagaaagcag	600
	gacaagcgct	tcgccttcac	ccgctcagac	agcggcccca	ccaccagttt	tgagtctgcc	660
	gcctgccccg	gttggttcct	ctgcacagcg	atggaagctg	accagcccgt	cagcctcacc	720
	aatatgcctg	acgaaggcgt	catggtcacc	aaattctact	tccaggagga	cgagtgtac	780
	tgccagggcc	tgccctgttc	cattcttgca	tggaaggac	tgcaaggact	gccagtcccc	840
	ctgccccagg	gctcccggtc	atgggggcac	tgaggaccag	ccattgaggg	gtggaccctc	900
	agaaggcgct	acaagaacct	ggtcacagga	ctctgcctcc	tcttcaactg	accagcctcc	960
	atgctgcctc	cagaatgtgc	tttctaattg	gtgaatcaga	gcacagcagc	ccctgcacaa	1020
	agcccttcca	tgctgcctct	gcattcagga	tcaaaacccg	accacctgcc	caacctgtc	1080
	tcctcttgcc	actgcctctt	cctccctcat	tccaccttcc	catgccttgg	atccatcagg	1140
	ccacttgatg	acccccaacc	aagtggctcc	cacaccctgt	tttcaaaaaa	agaaaagacc	1200
	agtcacatag	ggaggttttt	aggggttttt	ggaaaatgaa	aattaggatt	tcattgattt	1260
	tttttttcag	tcccgtgtaa	ggagagccct	tcatttggag	attatgttct	ttcggggaga	1320
	ggctgaggac	ttaaaatatt	cctgcatttg	tgaaatgatg	gtgaaagtaa	gtggtagctt	1380
	ttcccttctt	tttcttcttt	ttttgtgatg	tcccaacttg	taaaaattaa	aagttatggg	1440
	actatgttag	cccataaatt	ttttttttcc	tttttaaaaca	cttcacataat	ctggactcct	1500
	ctgtccaggc	actgctgccc	agcctccaag	ctccatctcc	actccagatt	ttttacagct	1560

```

gctgcagta ctttacctcc tatcagaagt ttctcagctc ccaaggctct gagcaaatgt 1620
ggctcctggg ggttctttct tctctgctg aaggaataaa ttgctccttg acattgtaga 1680
gcttctggca cttggagact tgtatgaaag atggctgtgc ctctgcctgt cccccacc 1740
gggctgggag ctctgcagag caggaaacat gactcgtata tgtctcaggt ccctgcaggg 1800
ccaagcacct agcctcgtc ttggcaggta ctcagcgaat gaatgctgta tatgttgggt 1860
gcaaagtccc ctacttcctg tgacttcagc tctgttttac aataaaatct tgaaaatgct 1920
aaaaaaa
1927

```

```

<210> 50
<211> 1833
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 241930.15

```

```

<400> 50
gctgctaaga gcgctgggtc ctgcttgtgc tcagctccag ctcaactgggt ggccaccgag 60
acttctggac aggaaactgc accatcctct tctcccagca aggggggtcc agagactgcc 120
caccacaggaa gtctggtggc ctggggattt ggacagtgcc ttggtaatga ccagggtccc 180
aggaagagat gtccttgtgg ctggggggccc ctgtgcctga cattcctcct gactctgcgg 240
tggagctgtg gaagccaggc gcacaggatg caagcagcca ggcccaggga ggcagcagct 300
gcatcctcag agaggaagcc aggatgcccc actctgctgg gggtagtgc ggggtggggc 360
tggaggtctg agagcccaca gccctgctca ccagggcaga gcccccttca gaaccacag 420
agatccgttc acaaaagcgg aaaaaggggc cagcccccaa aatgctgggg aacgagctat 480
gcagcgtgtg tggggacaa ggcctcgggt tccactacaa tgttctgagc tgcgagggt 540
gcaagggatt cttccgccgc agcgtcatca agggagcgca ctacatctgc cacagtggcg 600
gccactgccc catggacacc tacatgcgtc gcaagtgcc ggagtgtcgg cttcgcaaat 660
gccgtcaggc tggcatgcgg gaggagtgtg tctgtcaga agaacagatc cgcctgaaga 720
aactgaagcg gcaagaggag gaacaggctc atgccacatc cttgcccccc agggcttct 780
cacccccaca aatcctgccc cagctcagcc cggaacaact gggcatgatc gagaagctcg 840
tcgtgcccc gcaacagtgt aaccggcgtc ccttttctga ccggtctcga gtcacgcctt 900
ggcccatggc accagatccc catagccggg agggccgtca gcagcgttt gccacttca 960
ctgagctggc catcgtctct gtgcaggaga tagttgactt tgctaaacag ctaccgggt 1020
tctgcagct cagccgggag gaccagattg cctgtctgaa gacctctgcg atcgagggtga 1080
tgcttctgga gacatctcgg aggtacaacc ctgggagtga gagtatcacc ttcctcaagg 1140
atttcagtta taaccgggaa gactttgcc aagcagggtc gcaagtggaa ttcataacc 1200
ccatcttoga gttctccagg gccatgaatg agctgcaact caatgatgcc gagtgtgct 1260
tgctcattgc tatcagcatc ttctctgcag accggcccaa cgtgcaggac cagctccagg 1320
tagagaggct gcagcacaca tatgtggaag cctgcagtc ctacgtctcc atccaccatc 1380
cccatgaccg actgatgttc ccacggatgc taatgaaact ggtgagcctc cggaccctga 1440
gcagcgtcca ctacagcaa gtgtttgcac tgcgtctgca ggacaaaaag ctcccaccgc 1500
tgctctctga gatctgggat gtgcacgaat gactgttctg tccccatatt ttctgtttc 1560
ttggccggat ggctgaggcc tgggtggctgc ctctagaag tggaacagac tgagaagggc 1620
aaacattcct gggagctggg caaggagatc ctcccgctggc attaaaagag agtcaaaggg 1680
ttgcgagttt tgtggtact gagcagtgga gccctcgcta acactgtgct gtgtctgaag 1740
atcatgctga cccacaaac ggatgggcct gggggccact ttgcacaggg ttctccagag 1800
ccctgcccac cctgctcca ccacttctg ttt
1833

```

```

<210> 51
<211> 1987
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 413466.5

```

```

<400> 51
cgcgggcccc acggtttgac cgggtcgtgg cagccggagt cgtcttcggg acgcgcctgc 60
tcttcgctt tcgctgcagt ccgtcgattt ctttctccag gaagaaaaat ggcacccgtt 120
gcagttgatc cacaaccgag tgtggtgact cgggtggtca acctgccctt ggtgagctcc 180
acgtatgacc tcatgtcctc agcctatctc agtacaaagg accagtatcc ctacctgaag 240
tctgtgtgtg agatggcaga gaacgggtgtc aagaccatca cctccgtggc catgaccagt 300
gctctgcccc tcatccagaa gctagagccg caaattgcag ttgccaatac ctatgectgt 360
aaggggctag acaggattga ggagagactg cctattctga atcagccatc aactcagatt 420

```

gttgccaatg	ccaaaggcgc	tgtgactggg	gcaaaagatg	ctgtgacgac	tactgtgact	480
ggggccaagg	attctgtggc	cagcacgac	acaggggtga	tggacaagac	caaaggggca	540
gtgactggca	gtgtggagaa	gaccaagtct	gtggtcagtg	gcagcattaa	cacagtcttg	600
gggagtcgga	tgatgcagct	cgtgagcagt	ggcgtagaaa	atgcactcac	caaatacagag	660
ctgttggttag	aacagtagct	ccctctcact	gaggaagaac	tagaaaaaga	agcaaaaaaa	720
gttgaaggat	ttgatctggt	tcagaagcca	agttattatg	ttagactggg	atccctgtct	780
accaagcttc	actcccgtgc	ctaccagcag	gctctcagca	gggttaaaga	agctaagcaa	840
aaaagccaac	agaccatttc	tcagctccat	tctactgttc	acctgattga	atttgccagg	900
aagaatgtgt	atagtgccaa	tcagaaaatt	caggatgctc	aggataagct	ctacctctca	960
tgggtagagt	ggaaaaggag	cattggatat	gatgatactg	atgagtccca	ctgtgctgag	1020
cacattgagt	cacgtactct	tgcaattgcc	cgcaacctga	ctcagcagct	ccagaccacg	1080
tgccacaccc	tcctgtccaa	catccaaggt	gtaccacaga	acatccaaga	tcaagccaag	1140
cacatggggg	tgatggcagg	cgacatctac	tcagtgttcc	gcaatgctgc	ctccttttaa	1200
gaagtgtctg	ggcagacctc	cacttctagc	aaggggcagc	tgcaaaaaat	gaaggaatct	1260
ttagatgacg	tgatggatta	tcttgttaac	aacacgcccc	tcaactggct	ggtaggtccc	1320
ttttatcttc	agctgactga	gtctcagaat	gctcaggacc	aaggtgcaga	gatggacaag	1380
agcagccagg	agaccagcgc	atctgagcat	aaaactcatt	aaacctgccc	ctatcactag	1440
tgcatgctgt	ggccagacag	atgacacctt	ttgttatggt	gaaattaaact	tgctaggcaa	1500
ccctaaattg	ggaagcaagt	agctagtata	aaggccctca	attgtagtgt	tttccagctg	1560
aattaagagc	tttaaagttt	ctggcattag	cagatgattt	ctgttcacct	ggtaagaaaa	1620
gaatgatagg	cttgtcagag	ccatagacca	gaactcagaa	aaaattcaaa	tgcaacttat	1680
ttctcattct	atggccattg	tgttgcctct	gttactgttt	gtattgaata	aaaacatctt	1740
catgtgggct	ggggtagaaa	ctgggtgtct	ctctgggtgt	atctgaaaag	gcgtcttcac	1800
tgctttatct	catgatgctt	gcttgtaaaa	cttgatttta	gtttttcatt	tctcaaatag	1860
gaatactacc	tttgaattca	ataaaattca	ctgcaggata	gaccagttac	atgctgtttg	1920
ttccatatgc	tttgtgtgtt	gctttcgtag	agctgcttaa	cctgcatgac	agagttatta	1980
tacatac						1987

<210> 52

<211> 3391

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3249239

<400> 52

ggagctgtct	ctggcttgcc	catctgaaag	cgggtacatg	aacatgaact	tgagggcagt	60
tcaaaaagtg	cttggtcag	tgttgatggt	gcagagacag	aaaaaaatgg	gtagatgcaa	120
gtcctgtctc	cgagtttctc	gtgtcattaa	aatttaggct	ggtaggcaca	tcactgtgtg	180
cagtattagt	tcaatgtata	gttaggtttg	gctggcttaa	tctgggaagg	cttctttag	240
aaggtgacat	ctgggttggt	atcatgggag	aacaagggtg	tgctgtggct	gctagaaatc	300
ctgggaaagc	tggaatttag	ggatgctgta	tcctgaggtg	aggggcagag	cctgtagcat	360
tgtagatatg	aggcctttgt	tttctgctgt	tgagcagggc	atggggataa	ctggggagag	420
tgagacctgg	ggagaaatga	caccctctct	gtcacagaca	tggctgggct	ccctgctgtt	480
gttggtctgt	ctcctggcga	gcaggagtat	caccgaggag	gtgtcggagt	actgtagcca	540
catgattggg	agtggacacc	tgcagtctct	gcagcggctg	attgacagtc	agatggagac	600
ctcgtgccaa	attacatttg	agtttgtaga	ccaggaacag	ttgaaagatc	cagtgtgcta	660
ccttaagaag	gcattttctc	tggtacaata	cataatggag	gacaccatgc	gcttcagaga	720
taacaccccc	aatgccatcg	ccattgtgca	gctgcaggaa	ctctctttga	ggctgaagag	780
ctgcttcacc	aaggattatg	aagagcatga	caaggcctgc	gtccgaactt	tctatgagac	840
acctctccag	tgtctggaga	aggtcaagaa	tgtctttaat	gaaacaaaga	atctccttga	900
caaggactgg	aatattttca	gcaagaactg	caacaacagc	tttgctgaat	gctccagcca	960
aggccatgag	aggcagtcgg	agggatcctc	cagcccgcag	ctccaggagt	ctgtcttcca	1020
cctgctggtg	cccagtgtea	tcctgggtct	gctggccgtc	ggaggcctct	tgttctacag	1080
gtggaggcgg	cggagccatc	aagagcctca	gagagcggat	tctcccttgg	agcaaccaga	1140
gggcagcccc	ctgactcagg	atgacagaca	ggtggaaactg	ccagtgtaga	gggaattcta	1200
agctggacgc	acagaacagt	ctctccgtgg	gaggagacat	tatggggcgt	ccaccaccac	1260
ccctccctgg	ccatcctcct	ggaatgtggt	ctgccctcca	ccagagctcc	tgctgccag	1320
gactggacca	gagcagccag	gctggggccc	ctctgtctca	acccgcagac	ccttgactga	1380
atgagagagg	cagagagatg	ctccccatgc	tgcactattt	tattgtgagc	cctggaggct	1440
cccatgtgct	tgagggaagg	tggtagagccc	ggctcaggac	cctcttccct	caggggctgc	1500
accctcctct	cactcccttc	catgccggaa	cccaggccag	ggaccaccgc	gcctgtgggt	1560
tgtgggaaag	caggggtggac	gctgaggagt	gaaagaaccc	tgacccaga	gggcctgcct	1620
ggtgccaaag	tatcccagcc	tggacaggca	tggacctgtc	tccagagaga	ggagcctgaa	1680
gttcgtgggg	cgggacagcg	tcggcctgat	ttcccgtaaa	ggtgtgcagc	ctgagagacg	1740

ggaagaggag	gcctctggac	ctgctggtct	gcactgacag	cctgaagggt	ctacaccctc	1800
ggctcaccta	agtgcctgt	gctggttgcc	aggcgacag	gggaggccag	ccctgccctc	1860
aggacctgcc	tgacctgcca	gtgatgccaa	gagggggatc	aagcactggc	ctctgcccct	1920
cctccttcca	gcacctgcca	gagcttctcc	aggaggccaa	gcagaggctc	ccctcatgaa	1980
ggaagccatt	gcactgtgaa	cactgtacct	gcctgctgaa	cagcctgccc	ccgtccatcc	2040
atgagccagc	atccgtccgt	cctccactct	ccagcctctc	cccagcctcc	tgactgagc	2100
tgccctcacc	agtcgactga	gggagccctt	cagccctgac	cttctcctga	cctggccttt	2160
gactccccgg	agtggagtgg	ggtggggagaa	cctcctgggc	cgccagccag	agccgggtctt	2220
taggctgtgt	tgttcgccca	ggtttctgca	tcttgacttt	tgacattccc	aagagggaag	2280
ggactagtgg	gagagagcaa	gggaggggag	ggcacagaca	gagaggctac	agggcgagct	2340
ctgactgaag	atgggccttt	gaaatatagg	tatgcacctg	agggtggggg	agggctctgca	2400
ctcccaaac	ccagcgagct	gtcctttccc	tgctgcccag	aggaacctgg	ggctgagcag	2460
gttatccctg	tcaggagccc	tggaactgggc	tgcatctcag	ccccacctgc	atggtatcca	2520
gctcccatcc	acttctcacc	cttctttcct	cctgaccttg	gtcagcagtg	atgacctcca	2580
actctcacc	acccctctca	ccatcacctc	taaccaggca	agccagggtg	ggagagcaat	2640
caggagagcc	aggcctcagc	ttccaatgcc	tggaggccct	ccactttgtg	gccagcctgt	2700
ggtggtggct	ctgaggccta	ggcaacgagc	gacagggtct	ccagttgccc	ctgggttctt	2760
ttgtctgtct	gtgtgcctcc	tctctgccc	ccctttgtct	tccgctaaga	gacctgccc	2820
tacctgtgctg	ctgggccccg	tgactttccc	ttcctgcccc	ggaaagttag	ggtcggctgg	2880
ccccaccttc	cctgtcctga	tgccgacagc	ttagggaagg	gcagtgaact	tgcatatggg	2940
gcttagcctt	ctagtcacag	cctctatat	tgatgctaga	aaacacatat	ttttaaatgg	3000
aagaaaaata	taaaggcatt	cccccttcat	ccccctacct	taaacaata	atattttaaa	3060
ggtaggggga	tgacggggga	atgccttaaa	catataatat	tttaaaggtc	aaaaaagcaa	3120
tccaaccac	tcgagaagct	ctttttgagc	acttggtggc	atcagagcag	gaggagcccc	3180
agagccacct	ctggtgtccc	cccaggctac	ctgctcagga	accccttctg	ttctctgaga	3240
agtcaagaga	ggacattggc	tcacgcactg	tgagattttg	ttttataact	tggaagtggg	3300
gaattatttt	atttaaagtc	atttaaatat	catttaaaa	gataggaagc	tgcttatata	3360
tttaataata	aaagaagtgc	acaagctgcc	a			3391

<210> 53

<211> 4231

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 337518.18

<400> 53

gctgagagga	gacagccagt	gcgactccac	cctccagctc	gacggcagcc	gccccggccg	60
acagcccga	gacgacagcc	cggcgcgtcc	cggctcccac	ctccgaccac	cgccagcgct	120
ccaggccccg	ccgtctcccc	ctcgccgcca	ccgcgccctc	cgctccgccc	gcagtgccaa	180
ccatgaccgc	cgccagtatg	ggccccgtcc	gcgctgcctt	cgtggctcctc	ctcgccctct	240
gcagccggcc	ggccgtcggc	cagaactgca	gccccggctg	ccgggtgccc	gacgagccgg	300
cgccgcgtctg	cccgccgggc	gtgagcctcg	tgctggacgg	ctgcggctgc	tgccgcgtct	360
gcgccaaagca	gctggggcgca	gctgtgcacc	gagcgcgacc	cctgcgaccc	gcacaagggc	420
ctcttctgtg	acttcggctc	cccgcccaac	cgcaagatcg	gcgtgtgcac	cgccaaagat	480
ggtgtccct	ggcatcttcg	gtggtaagg	gtaccgcagc	ggagagtcc	tccagagcag	540
ctgcaagtac	cagtgcacgt	gcttggaagg	ggcggtgggc	tgcatgcccc	tgtgcagcat	600
ggacgttcgt	ctgcccagcc	ctgactgccc	cttcccagg	aggggtcaagc	tgcccgggaa	660
atgctgcgag	gagtgggtgt	gtgacgagcc	caaggaccaa	accgtgggtg	ggcctgccct	720
cgcggttac	cgactggaag	acacgttttg	cccagaccca	actatgatta	gagccaactg	780
cctggtccag	accacagagt	ggagcgccctg	ttccaagacc	tgtgggatgg	gcactctccac	840
ccgggttacc	aatgacaacg	cctcctgcag	gctagagaag	cagagccgcc	tgtgcatggt	900
caggccttgc	gaagctgacc	tggaagagaa	cattaagaag	ggcaaaaagt	gcatccgtac	960
tcccaaaatc	tccaagccta	tcaagtttga	gctttctggc	tgaccagca	tgaagacata	1020
ccgagctaaa	ttctgtggag	tatgtaccga	cggccgatgc	tgaccccccc	acagaaccac	1080
caccctgcc	gtggagttca	agtgcctga	cggcgaggtc	atgaagaaga	acatgatgtt	1140
catcaagacc	tgtgcctgcc	attacaactg	ttccggagac	aatgacatct	ttgaatcgct	1200
gtactacagg	aagatgtacg	gagacatggc	atgaagccag	agagtgcag	acattaactc	1260
attagactgg	aacttgaact	gattcacatc	tcatttttcc	gtaaaaatga	tttcagtagc	1320
acaagttatt	taaaactgtt	tttctaactg	ggggaaaaga	ttcccaccca	attcaaaaac	1380
ttgtgcatg	tcaaacaaat	agtctatcaa	ccccagacac	tggtttgaag	aatgttaaga	1440
cttgacagtg	gaactacatt	agtacacagc	accagaatgt	atattaaggt	gtggctttag	1500
gagcagtg	agggtaccag	cagaaaaggt	agtatcatca	gatagcatct	tatacgagta	1560
atatgcctgc	tatttgaagt	gtaattgaga	aggaaaattt	tagcgtgctc	actgacctgc	1620
ctgtagcccc	agtgcagct	aggatgtgca	ttctccagcc	atcaagagac	tgagtcaagt	1680

tggttccttaa	gtcagaacag	cagactcagc	tctgacatto	tgattcgaat	gacactgttc	1740
aggaatcggg	atcctgtcga	ttagactgga	cagcttggg	caagtgaatt	tgcctgtaac	1800
aagccagatt	ttttaaaatt	tatatgttaa	atattgtgtg	tgtgtgtgtg	tgtgtatata	1860
tatatatatg	tacagttatc	taagttaatt	taaagtgtgt	tgtgcctttt	tatttttgtt	1920
tttaattgctt	tgatatttca	atgttagcct	caatttctga	acaccatagg	tagaatgtaa	1980
agcttgtctg	atcgttcaaa	gcatgaaatg	gatacttata	tggaaattct	gctcagatag	2040
aatgacagtc	cgtcaaaaaca	gatttgtttgc	aaaggggagg	catcagtgtc	cttggcaggc	2100
tgatttctag	gtaggaatg	tggtagcctc	acttttaatg	aacaaatggc	ctttattaaa	2160
aactgagtga	ctctatatag	ctgatcagtt	ttttcacctg	gaagcatttg	tttctacttt	2220
gatatgactg	tttttcggac	agtttatttg	ttgagagtgt	gaccaaaagt	tacatgtttg	2280
cacctttcta	gttgaaaata	aagtgtatat	tttttatctc	atttctccca	gaattaaaga	2340
tatacttttag	tgatctgcgt	gataaatattt	ataggtttat	ttacctatat	ttaaaaatga	2400
tcagtggcta	gacatgtcta	gaaatatata	tggcctaata	tgtaacttct	ctttgataaa	2460
gtgaaaacaa	gtaatatata	agctaataatt	attgaagcaa	tatttttttg	tacatactta	2520
cttatttttat	tgttttcgat	ctgcatgcac	aatatgaaat	cataaaagca	acaaacatca	2580
ccacaccaac	actgagtaag	atcattttcta	tcaggccaag	gagggtttatt	tttccagtta	2640
cttgactttt	gaacatgttt	gccttctcat	caccaatggg	cccagtctca	ttaagccaaa	2700
gaataggcac	aatatagttc	ctcttcagat	tgtttaatac	ttgaattttt	tctgatggct	2760
tgaccaatag	gttgacctgc	agccgttttg	caaattgtaa	agtgaatcca	gttatagggt	2820
caatatccaa	gtatgtccta	tgttcttctt	catttgggtt	taatccatca	atagggttctg	2880
aaacatcagg	acttgcatac	agaaaatgag	gaagtgaat	gtacacaggt	ctcccttctt	2940
tgcatlgtgt	gatgtctagc	acaccatatg	atgtacaatt	ttttgagata	attttttctg	3000
tgacagaaaca	atagttgtct	gggttttcaa	ctggagaggg	aaaggccttg	gatggaagaa	3060
caaactctata	cacagggatt	cctttcagat	taacgtcgga	ttcaaataca	gcatagattg	3120
acctgcaaat	atcagaagaa	aagaactgca	atacctgggt	tttctcaaca	aaaggtggaa	3180
atgaggctgc	atctgtacca	ttaatcatgt	cgcagtgact	ttcccaatag	gacagattcc	3240
ttttaccctt	atatgtgtcg	attatggcaa	ctttacttat	gttatctttt	ccattgaaaa	3300
ctttataaac	tccatctgca	gtattgttgt	aaggataaaa	cagaccaact	gtggtagtaa	3360
cagggtagcg	aaccaaaactc	aaaaatggat	ccctatagcc	ccataacagt	tctctcaaa	3420
ttctgacttg	gaacatagaa	gattttgact	tgtaataaag	tgaattgagg	atcatttgaa	3480
caaattgatt	ttgatagata	tgggatgcag	ctgccacagc	cagattgaga	actgtgaagt	3540
tgtcagcctc	tgttccaact	gatagtgaag	gttcgaagat	ggcaccattg	ggctgcagga	3600
aagagactgt	gttgtcctca	gcgtcctggg	ttacattttc	cttggttaga	aaacgaactc	3660
tgtacgtata	aggacctctt	tgcttaactt	gaatgttgct	gctgttcctc	atcacttctc	3720
gtggattttg	cacatcaaag	atccaaaact	gtctgtaaac	ttctgtgcct	gttttaacc	3780
aattttttaa	agcaattgta	ccttcttcga	ggacaacttg	ctttttaatt	gtcttctgga	3840
taagcaggct	tccaactggc	attagaatac	ctccaaacac	agccaggaca	gcaccaatga	3900
cagccccagc	gatgagccca	cagttccggg	cacagcccat	ttttcttggt	caggagggtga	3960
attagtgtta	agcactctgt	tcttgcaaac	tcttgatgat	gattaaagtg	gtttctacaa	4020
gctctgggtc	ttattccaaa	atcaacagca	agacatgaat	tttacaggaa	atgaactgat	4080
gagtcacaga	aagaatcaat	tcgtctaata	attggaaagc	tatcttttaa	atgggctaaga	4140
aggatttttc	aatcaaatgc	tccaacattt	ggacaattct	taataggatc	aaatgggtatt	4200
ctgcaggaaa	gtcctacact	gcagtcctca	t			4231

<210> 54
 <211> 2503
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: g3116213

<400> 54						
agcaggggct	ggaggaggaa	gaagagggtg	atccccggat	ccagggagaa	ctggagaagt	60
taaatcagtc	cacggatgat	atcaacagac	gggagactga	acttgaggat	gctcgtcaga	120
agttccgctc	tgttctgggt	gaagcaacgg	tgaactggg	tgaactgggt	aagaaaattg	180
gcaaagctgt	ggaagactcc	aagccctact	gggaggcacg	gagggtggcg	aggcaggctc	240
agctggaagc	tcagaaagcc	acgcaggact	tccagagggc	cacagagggtg	ctccgtgccg	300
ccaaggagac	catctccctg	gccgagcagc	ggctgctgga	ggatgacaag	cggcagttcg	360
actccgctg	gcaggagatg	ctgaatcacg	ccactcagag	ggatcatggag	gaggagcaga	420
ccaagaccag	gagcgagctg	gtgcataagg	agacggcagc	caggtacaat	gccgccatgg	480
gccgcatgcg	acagctggag	aagaaactca	agagagccat	caacaagtcc	aagccttatt	540
ttgaactcaa	ggcaaagtac	tatgtgcagc	tcgagcaact	gaaaaagact	gtggatgacc	600
tgcaggccaa	actgaccctg	gcaaaaggcg	agtacaagat	ggccctgaag	aacctggaga	660
tgatctcaga	tgagatccac	gagcggcgcg	gctccagtgc	catggggcct	cggggatgcg	720
gtgttggtgc	tgagggcagc	agcacatctg	tggaggatct	gccagggagc	aaacctgagc	780


```

ctgatgccat ttctgtggcc tcggaggcct ttgaagatga cagctgtagc aacttttgtgt 840
ctgaagatga ctcggaacc cagtcctgtt ccagctttag ttcaggacca acaagcccgt 900
ctgagatgcc tgaccagttc cctgcggttg tgaggcctgg cagcctggat ctgccagcc 960
ctgtgtccct gtcagagttt gggatgatgt tcccagtggt aacgcctoga agtgaatgca 1020
gcggggcctc tccccctgaa tgtgaagtag aacgaggaga cagggcagaa ggggcagaga 1080
ataaaacaag tgacaaagcc aacaacaacc ggggcctcag cagtagcagt ggcagtgggtg 1140
gcagcagtaa gagccaaagc agcacctccc ctgagggcca ggccttggag aaccggatga 1200
agcagctctc cctacagtgc tcaaagggaa gagatggaat tattgctgac ataaaaatgg 1260
atgcatttgg ctgattcatc ctgggcccctg gccgatgtgc atatcaacat ttatacatgg 1320
aactggagaa catttgtgcca ataatacattt aatatatgcc aaatcttaca cgtctactct 1380
aaactgctct aatgaagttt cagtgcactt gagggctaaa gattgttctt ctgggtaaga 1440
gctcttgggc tgggtttttca gagcagagtt cttgttgttg gtagactgtg actaggttca 1500
cagcctttgt ggaacattcc gtataacggc atttgtgaag caataactag ttctatgaa 1560
agaaccagag ctgggaagat ggctgggaag ccaggccaaa gtgggggcaa cagcttgctt 1620
ctctttctct tctcacctc agtttgtatg ggaaaatgga gatgtcctct ccactttatc 1680
ccacgatata taaatgaaaa agaaagaaaa ccacacacac aagcaaaaac tcaagtatta 1740
agagcacata tttttgacct agtggaggct taaaaaataa aaaatccaag aacacaattc 1800
atttcaccca cctctgtgtg tcagaggggg cttttaaaaa agcgtgtatg ctgggatacc 1860
cattaaaacc attttctaga aggtaccat gagctgcact ttttgggtg ggaagggtga 1920
atgccagtgg ggatgcgggg ggatgagggt aggggggact tatagaaggg gatttgggtc 1980
tgtgggggag aaggttctac agcataagcc ttatcctgcc agccaagggg atttattcta 2040
agagaagtgc atgtgaagaa tggttggcac ttgtattaga ttgacaagat gttaatctt 2100
ctgtaggttg taactttaaa aataaatgaa attatttaag ggttatgctg cactagtatt 2160
ccttagagga aacagttctt taaagttagg aaaggagta ggcaggcatg tgttggcaa 2220
ggctgttaat agtagttaag tgttaagact gcttttctt aacgttttca tggtaatgca 2280
tatttagagc actgtatttt tgtcttggta agaaaattta gcatttcta aagaaaaaag 2340
caacctctt tcaaactgtt cagcctgtat attttagtca tttgtaaatc 2400
tcttcataca atagtgaact cttttttgac tgatacagta tcttaattac aaggttattt 2460
tgtacttgtc ttaatacact aagtgttaata aaaacggctt gag 2503

```

<210> 55
<211> 2791
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: g5912216

```

<400> 55
acgcgtccgg ccgcggccgg aggtatccgc atcggcgagc tgcgtctccc ggggtgtcggc 60
cccgcgggct ccccgaccgt gcccggtgtt ggcgagggcg ctccagccca gcctgtggca 120
ccgcgcagcc ccggggcgct ccggagccca ctgcgcggcg cgcgtgccgg ctgcctgcat 180
ggacgcggca ctgaagcgga gccgctcgga ggagccagcc gcctgtcccg gcctgtcccg 240
ggacgaggag gaggaggagg aagaggggat ggagcagggg ctggaggagg aagaaggagt 300
ggatccccgg atccaggagg aactggagaa gttaaatcag tccacggatg atatcaacag 360
acgggagact gaacttgagg atgctcgtca gaagtccgc tctgttctgg ttgaagcaac 420
ggtgaaactg gatgaactgg tgaagaaaat tggcaagct gtggaagact ccaagcccta 480
ctgggaggca cggagggtgg cgaggcaggc tcagctggaa gctcagaaag ccacgcagga 540
cttcagagg gccacagagg tgctccgcgc cgccaaggag acatctccct ggccgagcag 600
cggtcgtcgg aggatgacaa gcggcagttc gactccgcct ggcaggagat gctgaatcac 660
gccactcaga gggatcatgga ggccgagcag accaagacca ggagcgagct ggtgcataag 720
gagacggcag ccaggtacaa tgccgcatg gccgcagtc gacagctgga gaagaaactc 780
aagagagcca tcaacaagtc caagccttat tttgaactca aggcaaagta ctatgtgcag 840
ctcgagcaac tgaaaaagac tgtggatgac ctgcaggcca aactgacct ggcaaaaggc 900
gagtacaaga tggccctgaa gaacctggag atgatctcag atgagatcca cgagcggcgg 960
cgctccagtg ccatggggcc tcgggggatgc cctgatgcca tttctgtggc ctcgagggcc 1020
tgaggagatc tgccaggag caactttgtg tctgaagatg actcggaac ccagtccgtg 1140
tccagcttta gttcaggacc aacaagccc tctgagatgc ctgaccagt ccttgcgggt 1200
gtgaggcctg gcagcctgga tctgccagc cctgtgtccc tgtcagagtt tgggatgatg 1260
ttcccagtgt tgggcccctg aagtgaatgc agcggggcct cctcccctga atgtgaagta 1320
gaacgaggag acagggcaga aggggcagag aataaaacaa gtgacaaagc caacaacaac 1380
cggggcctca gcagtagcag tggcagtggt ggcagcagta agagccaaag cagcacctcc 1440
cctgagggcc aggccttgga gaaccggatg aagcagctct ccctacagt ctcaaaggga 1500
agagatggaa ttattgctga cataaaaatg gtgcagattg gctgattcat cctgggccct 1560
ggccgatgtg catatcaaca ttatacatg gaactggaga acattgtgcc aataatcatt 1620

```

taatatatgc	caaactcttac	acgtctactc	taaactgctc	taatgaagtt	tcagtgcact	1680
tgagggctaa	agattgttct	tctgggtaag	agctcttggg	ctgggttttc	agagcagagt	1740
tcttggtgtg	ggtagactgt	gactaggttc	acagcctttg	tggaacattc	cgtataacgg	1800
cattgtggaa	gcaataacta	gttcctatga	aagaaccaga	gctgggaaga	tggctgggaa	1860
gccaggccaa	agtgggggca	acagcttgct	tctctttctc	ttctcaccct	cagtttgat	1920
gggaaaatgg	agatgtcctc	tccactttat	cccacgatat	ctaaatgaaa	aagaaagaaa	1980
acccacacac	aaagcaaaaa	ctcaagtatt	aagagcacat	atttttgacc	cagtggaggc	2040
ttaaaaaaa	aaaaatccaa	gaacacaatt	cattttcacc	acctctgggtg	ttcagagggg	2100
gcttttataa	aagcgtgtat	gctgggatac	ccattaaaa	cattttctag	aaggctacca	2160
tgagctgcac	tttttggggt	gggaaagggtg	aatgccagtg	gggatgaggg	gggatgaggg	2220
taggagggac	ttatagaagg	ggatttgtgg	ctgtggggga	gaagggtcta	cagcataagc	2280
cttatectgc	cagccaaggg	gatttattct	aagagaagtg	catgtgaaga	atggttgcca	2340
ctgtttataa	attgacaaga	tgttaatttc	ctcttaggtt	gtaacttta	aaataaatga	2400
aattatttaa	gggttatgt	gcactagtat	tccttagagg	aaacagttct	ttaaagttag	2460
gaaagggagt	aggcaggcat	gtgttggcaa	aggctgttaa	tagtagtta	gtgttaagac	2520
tgcttttctt	taacgttttc	atggtaatgc	atatttagag	cactgtat	ttgtcttgtt	2580
aagaaaat	agcatttcta	aaagaaaaaa	gcaaccctct	ttcaaactgt	taattctgtc	2640
acagcctgta	tattttagtc	atttgtaaat	ctcttcatac	aatagtgact	tcctttttga	2700
ctgatacagt	atcttaatta	caaggttatt	ttgtacttgt	cttaatacac	taagtgtaat	2760
aaaaacggct	tgagaaaaaa	aaaaaaaaaa	a			2791

<210> 56
<211> 1053
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 992917.1

<400> 56	cgagagtgt	cggggtttcc	tgtttcaaca	gtgtttggac	ggaacccggc	gctcgttccc	60
caccccgccc	ggccgccc	agccagccct	ccgtcacctc	ttcacccgac	cctcggactg		120
ccccaaaggc	cccgccgccc	ctccagcgcc	gcgcagccac	cgccgcccgc	gccgcccctc		180
cttagtcgcc	gccatgacga	ccgcgtccac	ctcgcagggtg	cgccagaac	taccaccagg		240
actcagaggc	cgccatcaac	cgccagatca	acctggagct	ctacgcctcc	tacgtttacc		300
tgatcatgtc	ttactacttt	gaccgcatg	atgtggcttt	gaagaacttt	gccaaatact		360
ttcttcacca	atctcatgag	gagagggaac	atgtgagaa	actgatgaag	ctgcagaacc		420
aacgaggtgg	cccgaatctt	ccttcaggat	atcaagaaac	cagactgtga	tgactgggag		480
agcgggctga	atgcaatgga	gtgtgcatta	catttggaaa	aaaatgtgaa	tcagtcacta		540
ctggaactgc	acaaactggc	cactgacaaa	aatgaccccc	atttgtgtga	cttcattgag		600
acacattacc	tgaatgagca	ggtgaaagcc	atcaaagaat	tgggtgacca	cgtgaccaac		660
ttgcgcaaga	tgggagcgcc	cgaatctggc	ttggcggaat	atctctttga	caagcacacc		720
ctgggagaca	gtgataatga	aagctaagcc	tcgggcta	ttccccatag	ccgtgggggtg		780
acttcctctg	tcaccaaggc	agtgcacgca	tggttggggtt	tcctttacct	tttctataag		840
ttgtaccaaa	acatccactt	aagttctttg	atttgtacca	ttccttcaaa	taaagaaatt		900
tggtaaccag	gtgttgtctt	tgaggtcttg	ggatgaatca	gaaatctatc	caggctatct		960
tcagattcc	ttagtgccg	ttgttcagtt	ctaatacac	taatacaaaa	gaaacgagta		1020
tttgtattta	ttaaactcat	tagtttgggc	agt				1053

<210> 57
<211> 1235
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 411424.12

<400> 57	tagttcaaga	caacagagac	aaagctaaga	tgaggaagtt	ctgtacagtt	taggaaatag	60
aggctttcaa	agataattcg	cagtgatgtg	aaactggggc	tccaagccc	tgataacaac		120
atggccaacg	ccctggccag	cgccacttgc	gagcgctgca	agggcggtt	tgcgcccgt		180
gagaagatcg	tgaacagtaa	tggggagctg	taccatgagc	agtgtttcgt	gtgcgctcag		240
tgcttcacgc	agttccaga	aggactcttc	tatgagtttg	aaggaagaaa	gtactgtgaa		300
catgactttc	agatgctctt	tgcccttgc	tgcatcagtt	gtgggtgaatt	catcattggc		360
cgagttatca	aagccatgaa	taacagctgg	catccggagt	gcttccgctg	tgacctctgc		420

caggaagttc	tggcagatat	cgggtttgtc	aagaatgctg	ggagacacct	gtgtcgcccc	480
tgctcataatc	gtgagaaagc	cagaggcctt	gggaaataca	tctgccagaa	atgccatgct	540
atcatcgatg	agcagcctct	gatattcaag	aacgaccctt	accatccaga	ccatttcaac	600
tgcgccaact	gcgggaagga	gctgactgcc	gatgcacggg	agctgaaagg	ggagctatac	660
tgcttcccat	gccatgataa	aatgggggtc	.cccattctgtg	gtgcttgccg	acggcccatc	720
gaagggcgcg	tggatgaacg	tatgggcaag	cagtggcatg	tggagcattt	tgtttgtgcc	780
aagtgtgaga	aaccctttct	tggacatcgc	cattatgaga	ggaaaggcct	ggcatattgt	840
gaaactcact	ataaccagct	atttgggtgat	gtttgcttcc	actgcaatcg	tgttatagaa	900
ggatgatgtg	tctctgtctt	taataaggcc	tgggtgcgtga	actgctttgc	ctgttctacc	960
tgcaacacta	aattaacact	caagaataag	tttgtggagt	ttgacatgaa	gccagtctgt	1020
aagaagtgtc	atgagatttc	cattggagct	gaagaaaaga	cttaagaaac	tagctgagac	1080
cttaggaagg	aaataagttc	ctttattttt	tcttttctat	gcaagataag	agattaccaa	1140
cattacttgt	cttgatctac	ccatatttaa	agctatatct	caaagcagtt	gagagaagag	1200
gacctatatg	aatgggtttta	tgtcattttt	ttaaa			1235

<210> 58
<211> 1653
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 995600.17

<220>
<221> unsure
<222> 1635
<223> a, t, c, g, or other

<400> 58						
cgggggggacc	ggccccgcga	ccgcgcgcgc	cgtgtgcage	ctatcaagct	ggccagagtc	60
accaaggtcc	tgggcaggac	cggttctcag	ggacagtga	cgcaggtaat	cgggtggggg	120
catttggccg	actgccgatt	acctgcgtgc	actgtocctg	ctctaacccc	tgccagccgg	180
aatccggggg	ccgattctca	tttcatcaca	gggtttctgat	ggttcccttt	aacgatctgt	240
attctggccc	cgacacgttc	tctgaattca	tatctgcttc	ccactccgcg	gtgcctttcc	300
gcggcccgcc	cttacttctt	cctccactcc	ggtggggacc	cgtagggtgcg	cgtggaattc	360
atggacgaca	cgagccgac	catcatccgc	aatgtaaaag	gccccgtgcg	cgagggcgac	420
gtgctcacc	ttttggagtc	agagcgagaa	gcccggagg	tgcgctgagc	ttggctgctc	480
gctgggtctt	ggatgtcggg	ttcgaccact	tggccgatgg	gaatgggtctg	tcacaactctg	540
ctcctttttt	ttgtccgcca	cacgtaactg	agatgctcct	ttaaataaag	cgtttgtgtt	600
tcaagttaac	tcaggttctt	gtatgggcta	tacgactagg	gtttctccag	gtttcttgag	660
tggctcccag	gcggtcaccg	atcctccgca	ctctggaaat	cctggccgtg	cggctcttgcc	720
aaacgaagct	tttctttttt	gaggcggggg	gtcgtgtttg	tcgattgcac	cctctacccc	780
aaacaaaaca	caagcgtagt	aggaatgttt	tattagcaaa	gaagtctcag	agtgggtgga	840
tcagggctct	atcacttggg	ccccacctca	ccttgggtgg	gccagagtga	gcccccttct	900
gccacagtca	ccccaaactga	aattgccttt	ctcttcggcc	agtgttagcc	tctgagcagg	960
ggaccttgga	cccttctgtg	cgccaaaggc	tgaggtgact	gacgaggaga	tctccccaca	1020
gctaggtgta	gtgagccaga	cgaggcagct	tactgaacct	gggggttctc	tccattgtca	1080
ccgcattctc	cttcaccagg	tgtggctgtc	tggggagcca	gggggtgact	cgctctggag	1140
agaggggaaa	agaggggggc	ctgctgcaat	ctccttgagg	caggaaacgt	gggattcagc	1200
cccagcctca	cttagtgag	gttctttttt	catggaccca	ggctgcctgg	tttgtatcca	1260
acctctgccc	cttctgacct	ggaagaggcg	cttgaccttc	ctccacatc	ccttccagtg	1320
gggtgagtac	aggtgttctt	cagtttacaa	tgggttacat	tccggtgagt	acatcatagg	1380
ttgaaagtat	tgcaagttga	aatgtgttta	atacacctaa	tctccaaaac	atcacagctt	1440
agcatgggtc	atcttaagct	tgttcagaac	gccttagcct	gtagtggggg	aaactcgtct	1500
aacacgaagc	ctgttttaat	aaagtattga	atgtcttatg	taattttattg	aatactctgc	1560
tgaagtgtgg	tttttactaa	gcacacattg	cttttatgct	atcatgaagt	caaaaaattg	1620
taagttgtgc	caggngcgat	ggctcacage	tgt			1653

<210> 59
<211> 2782
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 441292.7

<400> 59

```

aaacacggtg aaaagaaacc gccattaca caccacagta caccagcaga ggaaacttat 60
aacctcggga ggcaggtcct tcccctgcag tgcggtcaca tacttcacaga agagcggacc 120
aggggctgct gccagcacct gccactcaga gcgcctctgt cgctgggacc cttcagaact 180
ctctttgctc acaagttacc aaaaaaaaaa gagccaacat gttggtattg ctggctggtta 240
tctttgtggt ccacatcgct actgttatta tgctatttgt tagcaccatt gccaatgtct 300
ggttggtttc caatacggta gatgcacag taggtctttg gaaaaactgt accaacatta 360
gctgcagtga cagcctgtca tatgccagtg aagatgccct caagacagtg caggccttca 420
tgattctctc tatcatcttc tctgtcctg cctcctgggt cttcgtgttc cagctcttca 480
ccatggagaa gggaaaccgg ttcttctctc caggggccac cacactggtg tgctggctgt 540
gcattcttgt gggggtgtcc atctacacta gtcatatgac gaatcgtgat ggaacgcagt 600
atcaccacgg ctattcctac atcctgggct ggatctgctt ctgcttcagc ttcacatcgt 660
gcgttctcta tctgtcctg agaaagaaat aagggcggac gagttcatgg ggatctgggg 720
ggtggggagg aggaagccgt tgaatctggg aggggaagtgg aggttgctgt acaggaaaaa 780
ccgagatagg ggagggggga gggggaagca aaggggggag gtcaaatccc aaaccattac 840
tgaggggatt ctctactgcc aagcccctgg cctcggggag aaagtagttg gctagtactt 900
tgatgctccc ttgatggggt ccagagagcc tccctgcagc caccagactt ggcctccagc 960
tgttcttagt gacacacact gtctggggcc ccacacagct ccacaacacc agccccactt 1020
ctgggtcatg cactgaggtc cacagaccta ctgcactgag ttaaaatagc ggtacaagtt 1080
ctggcaagag cagataactgt ctttgtgctg aatacgctaa gcctggaagc catcctgccc 1140
ttctgacca aagcaaaaca tcacattcca gtctgaagtg cctactgggg ggctttggcc 1200
tgttagcctt tgcctctctt tggaaacagat atttagctct gtggaattca gtgacaaaaa 1260
gggaggagga aagagagttt gtaaggtcat gctgggtgggt tagctaaacc aagaaggaga 1320
ccttttcaca atggaaaacc tgggggatgg tcagagccca gtcgagacct cacacacggc 1380
tgtcctcag ggagacctca tgccatgggtc ttgctaggc ctctgtctga aagccaaggc 1440
agctctcttg gagtttctc aaagtcacta gtgaacaatt cggtggtaaa agtaccacac 1500
aaactatggg atccaagggt cagtccttga acagtgccat gttagggtta tgtttttagg 1560
attccctca atgcagtcag tgtttctttt aagtatacaa caggagagag atggacatgg 1620
ctcattgtag cacaatccta ttactcttcc tctaaccatt ttgaggaggt tttgtctaatt 1680
tatcaatatt gaggatcagg gctcctaggc tcagtggtag ctctggctta gacaccacct 1740
ggagtgtatc cctcttgggg accctgccta tcccacttca caggtgaggc atggcaattc 1800
tggaagctga ttaaaacaca cataaacc aaacaaacaa caggcccttg ggtgaaaggt 1860
gctatataat tgtgaagtat taagcctacc gtatttcagc catgataaga acagagtgcc 1920
tgcattecca ggaaaatagc aaaatcccat gagataaata aaaatatagg tgatgggcag 1980
atcttttctt taaaataaaa aagcaaaaac tcttggtgta cctagtca ga tggtagacga 2040
gctgtctgct gccgcaggag caccctctata caggacttag aagtagtatg ttattcctgg 2100
ttaagcaggc attgctttgc cctggagcag ctattttaag ccactcaga ttctgtctaa 2160
aggggttttt tgggaagacg ttttctttat cgccctgaga agatctacc caggagagaat 2220
ctgagacatc ttgectactt ttctttatta gctttctcct cattcatttc ttttatacct 2280
ttcctttttg gggagtttgt atgccatgat ttttgggtatt tatgtaaaag gattattact 2340
aattctattt ctctatgttt attctagtta aggaaatggt gagggcaagc caccaaatta 2400
cctaggctga ggttagagag attggccagc aaaaactgtg ggaagatgaa ctttgtcatt 2460
atgatttcac tatcacatga ttatagaagg ctgtcttagt gcaaaaaaca tacttacatt 2520
tcagacatat ccaaggga tactcacatt ttgttaagaa gttgaactat gacttgagta 2580
aaccatgtat tcccttatct tttacttttt ttctgtgaca tttatgtctc atgtaatttg 2640
cattactctg gtggattgtt ctagtactgt attgggcttc ttcgttaata gattatttca 2700
tatactataa ttgtaaatat tttgatacaa atgtttataa ctctagggat ataaaaacag 2760
attctgattc ccttcaaaaa aa 2782

```

<210> 60

<211> 2348

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 042176.5

<400> 60

```

cgcccttttt ttttttcccc agggagtggt ggctggccct tactgcttta taagcaccag 60
ctcaagaagg aacctacagc ctcttggaag ggaatctcac taggggcttg actgctggg 120
ctgttagcgc tttcactgta agaaagcaag atgcatttta gaaacttta ctacagtttt 180
agctccctga ttgctgtgt ggcaaacagt gatattctca gcaaaagtga aaccagggcc 240
aaatttgagt cctcttttag gacgtatgac aaggacatca cctttcagta ttttaagagc 300
ttcaaacgag tcagaataaa cttcagcaac ccttctccg cagcagatgc caggctccag 360
ctgcataaga ctgagtttgt gggaaaggaa atgaagttat attttgtca gaccttacac 420
ataggaagct cacacctggg ctccgccaaa tcagacaag cagtttctga tctccctcc 480

```

```

cgctctccg ccagtgggat ggaacaagt ggaagatgcg accccagtea taaactatga 540
tctcttatat gccatctcca agctggggcc aggggaaaag tatgaattgc acgcagcgac 600
tgacaccact ccagcgtgg tggtccatgt atgtgagagt gatcaagaga aggaggaaga 660
agaggaaatg gaaagaatga ggagacctaa gccaaaaatt atccagacca ggaggccgga 720
gtacacgcgc atccacctca gctgaactgg cacgcgacga ggacgcattc caaatcatac 780
tcacgggagg aatcttttac tgtggagggt gctggtcacg acttcttcgg aggtggcagc 840
cgagatcggg gtggcagaaa tcccagttca tgttgctcag aagagaatca aggccgtgtc 900
cccttgttct aatgctgcac accagttact gttcatggca cccgggaatg acttgggcca 960
atcactgagt ttgtggtgat cgcacaagga catttgggac tgtcttgaga aaacagataa 1020
tgatagtgtt ttgtacttgt tctttcttgg taggttctgt ctgtgccaag ggcaggttga 1080
tcagttagct caggagagag ctctctgttt ctaagtggcc tgcaggggcc actctctact 1140
ggtaggaaga ggtaccacag gaagccgcct agtgcagaga ggttgtgaaa acagcagcaa 1200
tgcaatgtgg aaattgtagc gtttctcttc ttccctcatg ttctcatggt tgtgcatgta 1260
tattactgat ttacaagact aacctttgtt cgtatataaa gttacaccgt tgttgtttta 1320
catcttttgg gaagccagga aagcgttttg aaaacgtatc acctttccca gattctcgga 1380
ttctcgactc tttgcaacag cacttgcttg cggaaactctt cctggaatgc attcactcag 1440
catcccaac cgtgcaacgt gtaacttgtg cttttgcaaa agaagtgtat ctgaaattcc 1500
tctgtagaat tttagcttata caattcagag aatagcagtt tcaactgcaa ctttttagtgg 1560
gtgagaaatt ttagttagg tgtttgggat cggacctcag tttctgttgt ttcttttatg 1620
tggtgtgttc tatacatgaa tcatagccaa aaactttttt ggaaactgtt ggttgagata 1680
ggtgtgttct ttaccccacg aagacatcaa gatacacttg taaataaagc tgatagcata 1740
tattcatacc tgttgtagac ttgggtgaaa agtatggcag tgggagacta agatgtatta 1800
acctacctgt gaatcatatg ttgtaggaaa agctgttccc atgtctaaca ggacttgaat 1860
tcaaagcatg tcaagtggat agtagatctg tggcgatatg agagggatgc agtgcctttc 1920
ccatttcatt cctgatggaa ttgttatact aggttaacat ttgtaatttt tttctagtgt 1980
taatgtgtat cctgtgtaaa taggtattat attttggcct tacaataccg taacaatggt 2040
tgtcattttg aaatacttaa tgccaagtaa caatgcatgc tttggaaatt tggaagatgg 2100
ttttattctt tgagaagcaa atatgtttgc attaaatgct ttgattgttc atatcaagaa 2160
attgattgaa cgttctcaaa ccctgtttac ggtacttggg aagagggagc cgttttggga 2220
gagaccattg catcgctgtc caagtgtttc ttgttaagtg cttttaaaact ggagaggcta 2280
acctcaaaat atttttttta actgcattct ataataaatg ggcacagtat gctccttaca 2340
gaaaaaaa

```

<210> 61
 <211> 3668
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 234537.3

```

<400> 61
gtcgcagca aacgtgctg agctcggagt tggctcgtat gaccggggcc cgcctctcc 60
agccggggca ccgagcccg gccctagctg ctgcgcccta ctgcgggca ctgcctcggc 120
tcgcccgtt tcgcacccag ttcaocgcgc acagctatgt gtcccggagc cgcgcgggag 180
cccgcgacgc tactctctgc cctgggcgcg gtgctgtggc ctgcccgtgg cgcctgggag 240
cttacgattt tgcacaccaa cgacgtgcac agccggctgg agcagaccag cgaggactcc 300
agcaagtgcg tcaacgccag ccgctgcatg ggtggcgtgg ctcggtctct caccaaggtt 360
cagcagatcc gccgcgccga acccaacgtg ctgctgctgg acgcccggca ccagtaccag 420
ggcactatct ggttcaccgt gtacaagggc gccgagggtg cgcacttcat gaacgcctcg 480
cgctacgatg ccatggcact gggaaatcat gaatttgata atggtgtgga aggactgatc 540
gagccactcc tcaaaaggag caaattttcca attctgagtg caaacattaa agcaaagggg 600
ccactagcat ctcaaatac aggactttat ttgccatata aagttcttcc tgttgggtgat 660
gaagtgtgtg gaatcgttgg atacacttcc aaagaaaacc cttttctctc aaatccaggg 720
acaaatttag tgtttgaaga tgaaatcact gcattacaac ctgaagtaga taagttaaaa 780
actctaaatg tgaacaaaat tattgactg ggacattcgg gttttgaaat ggataaaact 840
atcgctcaga aagtgagggg tgtggacgtc ggtgtgggag gacactcaa cacatttctt 900
tacacaggca atccacctc caaagagggt cctgctggga agtaccatt catagtact 960
tctgatgatg ggcggaaggt tctgttagtc caggcctatg cttttggcaa atacctaggc 1020
tatctgaaga tcgagtttga tgaagaggaa aacgtcatct cttcccatgg aaatcccat 1080
cttctaaaca cgagcattcc tgaagatcca agcataaaaag cagacattaa caaatggagg 1140
ataaaattgg ataattatc taccaggaa ttagggaaaa caattgtcta tctggatggc 1200
tcctctcaat catgccgtt tagagaatgc aacatgggca acctgatttg tgatgcaatg 1260
attaacaaca acctgagaca cgcggaatga atgttctgga accacgtatc catgtgcatt 1320
ttaaatggag gtggtatccg gtcgccctt gatgaacgca acaatggcac aattacctgg 1380
gagaacctgg ctgctgtatt gccctttgga ggcacatttg acctagtcca gttaaaagg 1440

```

tccaccctga	agaaggcctt	tgagcatagc	gtgcaccgct	acggccagtc	cactggagag	1500
ttcctgcagg	tgggcggaat	ccatgtgggtg	tatgatcttt	cccgaataacc	tggagacaga	1560
gtagtcaaat	tagatgttct	ttgcaccaag	tgctgagtg	ccagttatga	ccctctcaaa	1620
atggacgagg	tatataaggt	gatcctccca	aacttctctg	ccaatggtgg	agatgggttc	1680
cagatgataa	aagatgaatt	attaagacat	gactctgggtg	accaagatat	caacgtgggt	1740
tctacatata	tctccaaaat	gaaagtaatt	tatccagcag	ttgaaggctg	gatcaagttt	1800
tccacaggaa	gtcactgcca	tggaagcttt	tctttaatat	ttctttcact	ttgggcagtg	1860
atctttgttt	tataccaata	gccaaaaatt	ctccttgcc	ttaatgtgtg	aaactgcatt	1920
ttttcaagtg	agattcaaat	ctgcctttta	ggacctggct	ttgtgacagc	aaaaaccatc	1980
tttacaggct	cctagaagct	gaagggttaga	gcattataaa	atgaagagac	agacatgatt	2040
actcagggct	agcaacctag	tgaggttagaa	aaaaaattaa	catagggccc	tataaggaga	2100
aagccaacta	tgtaaagttt	acgtgtccaa	attttaatga	aattttacta	acaattttaa	2160
accatatttt	tcttcttcac	atccatttct	aatccatcaa	acagcttatg	tttacataaa	2220
atthttatcat	tcacaaggaa	gttttaagca	cactgtctca	tttgatatcc	acaacttatt	2280
tttggttagga	aagagagatg	tttttccac	cgtgtcagat	gaaaaaactt	gaagctcaaa	2340
aagggttgac	gttgaccata	cagctaattgc	tgacagatcc	aagacctaga	cctaggtctt	2400
ttgaactcaa	gtccagcatt	ctcaactata	tcaagttact	gttcagaata	cttaatatct	2460
cctctcttca	taattatcaa	tagccccaag	ctcatggatg	acaaatctct	gctttatttc	2520
ttgtctctat	tttttccatt	tatagctcct	gttataatag	caagtttaac	ggtataaaca	2580
caggatacca	tcctctcttg	caacacccat	gtgcctttga	tgagtcagggt	agcaagctgt	2640
agtataataa	gagaaagggc	agaggctgca	aaagacagtc	aaaggacacg	agagaaagga	2700
aggggaagaa	caggactcca	ggactgtttt	atattataga	aaagcaagag	ctaaagagca	2760
tttacacatg	ttaaacagat	acttggttaag	catagtgctt	gacacacggc	attagctgtt	2820
atthttatgag	attccatgca	gctctgcctc	tgctctcttt	cttctaaccat	gaaggtatca	2880
tgagaagaga	accttctaac	ataagctgta	attctaaacc	tgactttgtc	cctctccagc	2940
aagaggctag	cactgaattc	attctactca	tactacacac	ccagttatgg	aatgtccaga	3000
gttctcgaag	aaaataaatg	actttaggaa	gagggtatata	ttttttaagt	cgctctgcct	3060
ccaaatctga	acagtcactg	taaatcattc	ttaaagccag	atatgagaac	ttctgctgga	3120
aagtgggacc	ctctgagtg	gtgggtcagaa	aatacccatg	ctgatgaaat	gacctatgcc	3180
caaagaacaa	atacttaacg	tgggagtgga	accacatgag	cctgctcagc	tctgcataag	3240
taattcaaga	aatgggaggg	ttcaccttaa	aaacagtggtg	caaatggcag	ctagaggttt	3300
tgataggaag	tatgtttgtt	tcttagtggt	tacaaatatt	aagtactctt	gatacaaaat	3360
atacttttaa	acttcataac	ctttttataa	aagttgttgc	agcaaaataa	tagcctcggt	3420
tctatgcata	tatggattag	ctataaaaaa	tgtaataaag	attgtacaag	gaaaattaga	3480
gaaaggcaca	tttagggttt	attttttaca	cttggccagt	aaaatagggg	aaatcctatt	3540
agaatttttt	aaagaacttt	ttttaagttt	cttaaatctg	tggtgtgatt	gtgaagtggt	3600
ataagaatg	actttgaacc	actttgcaat	tgtagattcc	caacaataaa	attgaagata	3660
agctcttt						3668

<210> 62
 <211> 1870
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 470468.21

<400> 62						
agggtacaca	cagtgacagt	gccagctcca	cattcccagc	caccggggcca	gggctgggttc	60
cacgctgtca	tttctctccg	ctggccccag	ccgcggggcc	accgcagagc	agacagaccg	120
gggatccctgc	ctggcggcgt	gaacctgggtg	tagtccctaga	gccgcttcta	gcccgggttc	180
ctccgccccca	gggttaggacc	acgtgggtgg	ttccctcatt	cgagtgtcc	ggcgacacaga	240
cccgcgcccc	gccgtctcgc	agcctccga	gagcgcgtcc	ttcgtccggc	cctggagcat	300
tgctgtttgtc	gccggtgtcg	cagtgcgagg	atggcgccgc	gggtgtagcg	gctctctgcg	360
caggccgagt	gggcccagag	aagcgaggaa	ctccgcagct	cgctgacacg	tctcgtctcc	420
tgctcccaatt	cagggtctgg	tgaggtgact	cgcggtcgcg	ggtgactcgc	cggcaggaca	480
ctgcctggaa	cgctctggagc	gctcccaact	gcagacgtct	gtccgcctcc	agccgctctc	540
ctctgacggg	tctgtcctca	gttggcggaa	tgccggccac	gggagccaat	gcagagaaag	600
ctgaaagtca	caatgattgc	cccgctcagac	ttttaaatcc	aaacatagca	aaaatgaaag	660
aagatattct	ctatcatttc	aatctcacca	ctagcagaca	caatttccca	gccttgtttg	720
gagatgtgaa	gttgggtggg	gttgggtggg	gcccctcccg	gatgaaagcc	ttcatcagggt	780
gcgttgggtgc	agagctgggc	cttgactgcc	caggtagaga	ctatcccaac	atctgtgcgg	840
gaactgaccg	ctatgccatg	tataaagtag	gaccggtgct	gtctgtcagt	catgggtatgg	900
gcattccttc	tatctcaatc	atgttgcag	agctcataaa	gctgctgtac	tatgcccggt	960
gctcaacgt	cactatcatc	cgcattggca	cttctgggtg	gataggctctg	gagcccgga	1020
ctgtgggtcat	aacagagcag	gcagtgagata	cctgcttcaa	ggcagagttt	gagcagattg	1080

tcctggggaa	gcgggtcatc	cggaacacg	accttaacaa	gaagctggtg	caggagctgt	1140
tgctgtgttc	tgacagagctg	agcgagttca	ccacagtggt	ggggaacacc	atgtgcacct	1200
tggacttcta	tgaagggcaa	ggccgtctgg	atggggctct	ctgctcctac	acggagaagg	1260
acaagcaggc	gtatctggag	gcagcctatg	cagccggcgt	ccgcaatata	gagatggagt	1320
ctcgggtgtt	tgccgccatg	tgacagcgct	gcggccctca	agcggccgtg	gtgtgtgtca	1380
ccctcctgaa	ccgcctggaa	ggggaccaga	tcagcagccc	tcgcaatgtg	ctcagcgagt	1440
accagcagag	gccgcagcgg	ctgggtgagct	acttcatcaa	gaagaaactg	agcaaggcct	1500
gagcgtgccc	ctgcacctcc	gcagacctgc	tgtgatgact	tgccattaaa	agcattgtcc	1560
aaaatcccc	gttgtgtgga	ctttgagcac	actttacaca	agaatctaga	aaatcagatc	1620
gcgattaaga	gacagagaat	cttggattaa	ccgcatggga	gatgtttctt	cttttgaagt	1680
ttcattggag	cattttcaat	gatgttagcc	tgatttgggg	tttcttcaag	aacattctac	1740
caaatTTTTg	tactatttct	agggaaattt	ttcagacttt	aaaattctaa	tggtagtcat	1800
attcatgtc	actaaacaag	aaatctgaca	atagtgcacg	ataactaagt	tcttgatcac	1860
ttactactta						1870

<210> 63
 <211> 2350
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 240120.3

<220>
 <221> unsure
 <222> 1254
 <223> a, t, c, g, or other

<400> 63						
gctacgcggg	ccacgctgct	ggctggcctg	acctaggcgc	gcggggctcg	gcggccgcgc	60
gggcgggctg	agttagcaag	acaagacact	caagaagagc	gagctgcgcc	tgggtcccg	120
ccagggttgc	acgcagaggc	gggcggcaga	cggtgcccg	cggaatctcc	tgagctccgc	180
cgccagctc	tggtgccagc	gcccagtggc	cgccgcttcg	aaagtgactg	gtgcctcgcc	240
gcctcctctc	ggtgcgggac	catgaagctg	ctgcccgtcg	tggtgctgaa	gctctttctg	300
gctgcagttc	tctcggcact	ggtgactggc	gagagcctgg	agcggcttcg	gagagggcta	360
gctgctggaa	ccagcaaccc	ggaccctccc	actgtatcca	cggaccagct	gctaccctta	420
ggaggcggcc	gggaccggaa	agtccgtgac	ttgcaagagg	cagatctgga	ccttttgaga	480
gtcactttat	cctccaagcc	acaagcactg	gccacaccaa	acaaggagga	gcacgggaaa	540
agaaagaaga	aaggcaaggg	gctagggaag	aagagggacc	catgtcttcg	gaaatacaag	600
gacttctgca	tccatggaga	atgcaaatat	gtgaaggagc	tccgggctcc	ctcctgcata	660
tgccacccgg	gttaccatgg	agagaggtgt	catgggctga	gcctcccagt	ggaaaatcgc	720
ttatatacat	atgaccacac	aaccatcctg	gcccgtgggtg	ctgtgggtgc	gtcatctgtc	780
tgtctgctgg	tcacgtggg	gcttctcatg	tttaggtacc	ataggagagg	aggttatgat	840
gtggaaaatg	aagagaaagt	gaagttgggc	atgactaatt	cccactgaga	gagacttgtg	900
ctcaaggaat	cggctgggga	ctgctacctc	tgagaagaca	caagtgattt	tcagactgca	960
gaggggaaag	acttccatct	agtcacaaag	actccttcgt	ccccagttgc	cgtctaggat	1020
tgggcctccc	ataattgctt	tgccaaaata	ccagagccct	caagtgccaa	acagagtatg	1080
tccgatggta	tctgggtaag	aagaaagcaa	aagcaaggga	ccttcatgcc	cttctgattc	1140
ccctccacca	aaccccaact	cccctcataa	gtttgtttta	acacttatct	tctggattag	1200
aatgccgggt	aaattccata	tgctccagga	tctttgactg	aaaaaaaaaa	agangaagaa	1260
gaaggagagc	aagaaggaaa	gatttgtgaa	ctggaagaaa	gcaacaaaga	ttgagaagcc	1320
atgtactcaa	gtaccaccaa	gggatctgcc	attgggaccc	tccagtgtcg	gatttgatga	1380
gttaactgtg	aaataccaca	agcctgagaa	ctgaattttg	ggacttctac	ccagatggaa	1440
aaataacaac	tatttttgtt	gttgtgtgtt	gtaaatgcct	cttaaattat	atatttattt	1500
tattctatgt	atgttaattt	atttagtttt	taacaatcta	acaataatat	ttcaagtgcc	1560
tagactgtta	ctttggcaat	ttcctggccc	tccactctc	atccccacaa	tctggcttag	1620
tgccaccac	ctttgccaca	aagctaggat	ggttctgtga	cccactctga	gtaatttatt	1680
gtctgtctac	atttctgcag	atcttccgtg	gtcagagtgc	cactgcggga	gctctgtatg	1740
gtcaggatgt	aggggttaac	ttggtcagag	ccactctatg	agttggactt	cagtcttgcc	1800
taggcgattt	tgcttaccat	ttgtgttttg	aaagcccaag	gtgctgatgt	caaagtgtaa	1860
cagatatcag	tgtctcccc	tgctctctcc	ctgtcaagtc	tcagaagagg	ttgggcttcc	1920
atgcctgtag	ctttcctggt	ccctcacc	catggcccca	ggccacagc	gtgggaactc	1980
actttccctt	gtgtcaagac	atttctctaa	ctcctgccat	tcttctggtg	ctactccatg	2040
caggggtcag	tgacagcag	gacagtctgg	agaaggtatt	agcaaagcaa	aaggctgaga	2100
aggaacagg	aacattggag	ctgactgttc	ttggttaactg	attacctgcc	aattgtacc	2160
gagaagggtg	gaggtgggga	aggctttgta	taatcccacc	cacctacca	aaacgatgaa	2220

ggtatgctgt catggtcctt tctggaagtt tctgggtgcca tttctgaact gttacaactt 2280
gtatttccaa acctgggtca tattttatact ttgcaatcca aataaagata acccttattc 2340
cataaaaaaa 2350

<210> 64
<211> 831
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 028779.3

<400> 64
gcactcccaa agaactgggt actcaacact gacgagatct gttctttgag ctaaaaacca 60
tgtgctgtac caagagtttg ctcttggtct ctttgatgtc agtgctgcta ctccacctct 120
gcggcgaatc agaagcagca agcaactttg actgctgtct tggatacaca gaccgtattc 180
ttcatcctaa atttattgtg ggcttcacac gccagctggc caatgaaggc tgtgacatca 240
atgctatcat ctttcacaca aagaaaaagt tgtctgtgtg cgcaaatcca aaacagactt 300
gggtgaaata tattgtgcgt ctctcagta aaaaagtcaa gaacatgtaa aaactgtggc 360
ttttctggaa tggaattgga catagcccaa gaacagaaag aaccttgctg gggttggagg 420
tttcacttgc acatcatgga gggtttagtg cttatctaatt ttgtgcctca ctggacttgt 480
ccaattaatg aagttgattc atattgcatc atagtttgct ttgtttaagc atcacattaa 540
agttaaactg tattttatgt tatttatagc tgtaggtttt ctgtgtttag ctattttaata 600
ctaattttcc ataagctatt ttggtttagt gcaaagtata aaattatatt tgggggggaa 660
taagattata tggactttct tgcaagcaac aagctatttt ttaaaaaaaa ctattttaaca 720
ttcttttgggt tatattgttt tgtctcctaa attgttgtaa ttgcattata aaataagaaa 780
aatattaata agacaaatat tgaaaataaa gaaacaaaaa gttaaaaaaa a 831

<210> 65
<211> 892
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 238627.2

<400> 65
gaaacacagc ctacgcacga aagtgcacta ggaggaagga tattataaag tgatgcaaac 60
agaaattcca ccagcctcca tgtatcatca tgtgtcataa ctcagtcaag ctcagtgagc 120
attctcagca cattgcctca acagcttcaa ggtgagccag ctcaagactt tgctctccac 180
caggcagaag atgacagact gtgaattttg atatatattac aggctggctc aggactatct 240
gcagtacgtc ctacagatac cacaacctgg atcagggtcca agcaaaacgt ccagagtgtc 300
acaaaaatgtt gcgttctcag tccaaaaaga agtggaagaa aatctgaagt catgcttggg 360
caatgttaat gttgtgtccg tagacactgc cagaacacta ttcaaccaag tgatggaaaa 420
ggagtttgaa gacggcatca ttaactgggg aagaattgta accatatttg catttgaagg 480
tattctcatc aagaaacttc tacgacagca aattgccccg gatgtggata cctataagga 540
gatttcatat tttgttcggt agttcataat gaataacaca ggagaatgga taaggcaaaa 600
cggaggctgg gaaaatggct ttgtaaagaa gtttgaacct aaatctggct ggatgacttt 660
tctagaagtt acaggaaaaga tctgtgaaat gctatctctc ctgaagcaat actgttgacc 720
agaaaggaca ctccatattg tgaaaccggc ctaatttttc tgactgatatt ggaaacgatt 780
gccaacacat acttctactt ttaaataaac aactttgatg atgtaacttg accttcaga 840
gttatggaaa ttttgtcccc atgtaatgaa taaattgtat gtatttttct ct 892

<210> 66
<211> 4595
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 254107.1

<400> 66
ggatccagct gtctctcctt gcgacacctg cttcggggaa gtccacgtcc taggcaggtc 60
ctcccaaagt gcccttgggt ccgacacccc ctcccagcgt cttgcaggtc ctgtgcacca 120

cctccccac	tccccattca	aagccctctt	ctctgaagtc	tccggttccc	agagctcttg	180
caatccaggc	tttctcttga	agtggctgta	acatgtatga	aaagaaagaa	aggaggacca	240
agagatgaaa	gagggctgca	cgcggtgggg	cccagatggt	ggcgggggac	agtcgtcttg	300
ttacaggggt	gctggccttc	cctggcgctc	gcccctgtcg	gccccgccc	agaacctccc	360
tgcgccagg	cagggtttac	tcatccggc	gaggtgatcc	catgcgcgag	ggcgggcgca	420
agggcgccca	gagaacccag	caatccgagt	atgcggcac	agcccttccc	accaggcact	480
tccttccttt	ccccgaacgt	ccagggagg	agggccgggc	actataaac	tcgagccctg	540
gccgatccgc	atgtcagagg	ctgcctcgca	ggggctgccc	gcagcggcaa	gaagtgtctg	600
ggctgggacg	gacaggagag	gctgtcgcca	tcggcggtgc	tgtgccctc	tgtccggca	660
cgccctgtc	gcagtgcgcg	cgctttcccc	ggcgccctga	cgcgcgcgcg	ctgggtaaca	720
tgcttgggg	cctgggtcct	ggcgcgctgg	ccctggccgg	cctgggggtc	cccgcacccg	780
cagagccgca	gcccgggtgg	agccagtgcg	tcgagcacga	ctgcttcgcg	ctctaccggg	840
gccccgcgac	cttctcaat	gccagtcaga	tctgcgacgg	actgcggggc	cacctaatga	900
cagtcgctga	ctcgggtgct	gccgatgtca	tttctctgct	actgaacggc	gacggcgcg	960
ttggccgcgc	ggcgctctgg	atcgccctgc	agctgccacc	cggtctcgcc	gaccccaagc	1020
gcctcgggcc	cctgcgcggc	ttccagtggg	ttacggggaga	caacaacacc	agctatagca	1080
ggtggggcag	gctcgacctc	aatggggctc	ccctctgcgg	cccgttgtgc	gtcgtgtct	1140
ccgctgctga	ggccactgtg	cccagcgtg	cgatctggga	ggagcagcag	tgccaagtga	1200
agggcgatgg	cttctcttgc	gagttccact	tcacagccac	ctgcaggcca	ctggctgtgg	1260
agcccgggcg	cgcggtctgc	gcccgtctga	tcacctacgg	caccccggtc	gcgggcccg	1320
gagcggaact	ccagggcgctg	ccgggtggga	gctccggcgc	ggtggctccc	ctcggttac	1380
agctaagtga	cctgaagcgg	cccggagcgg	tcagggggca	ctgggcccag	gagggcgccg	1440
gcgcttggga	ctgcagcgctg	gagaaacggc	cgctgcgagc	cgctgcaat	gcgatccctg	1500
gggtccccc	ctgccagtgc	ccagccggcg	ccgcccctga	ggcagacggg	cgctcctgca	1560
ccgatccgc	gacgcagtc	tgcaacgacc	tctgcgagca	cttctgcgtt	cccaaccccg	1620
accagccggg	ctctactctg	tgcagtgtgc	agaccggcta	ccggctggcg	gcccacaaac	1680
accggtgcga	ggacgtggat	gactgcatac	tcggagcccag	tcctgttccg	cagcgctgtg	1740
tcaacacaca	gggtggcttc	gagtgccact	gctaccctaa	ctacgacctg	gtggacggcg	1800
agtggttgg	gcccgtggac	ccgtgtctta	gagccaactg	cgagtaccag	tgccagcccc	1860
tgaacaaaac	tagctacctc	tgcgctctgc	ccgagggcct	cgcgcccat	ccccacgagc	1920
cgcaacgggt	ccagatggtt	tgcaaccaga	ctgcctgttc	agccgactgc	gaccccaaca	1980
cccaggctag	ctgtgagtgc	cctgaaggct	acatccctga	cgacgggttc	atctgcacgg	2040
acatcgacga	gtgcgaaaac	ggcggtcttc	gctccgggg	gtgccacaac	ctccccggt	2100
ccttcgagtg	catctgcggg	cccgactcgg	cccttgcccc	ccacattggc	accgactgtg	2160
actccggcaa	ggtggacgg	ggcgacagcg	gctctggcga	gcccccgccc	agccccagcg	2220
ccgctccac	cttgactcct	ccggccgtgg	ggctcgtgca	ttcgggcttg	ctcataggca	2280
tctccatcgc	gagcctgtgc	ctgggtgggtg	cgcttttggc	gctcctctgc	cacctgcgca	2340
agaagcaggg	cgccgcccag	gccaagatgg	agtacaagtg	cgcgccccct	tccaaggagg	2400
tagtgctgca	gcacgtgcgg	accgagcgga	cgccgcagag	actctgagcg	gctcctctcc	2460
aggagcctgg	gtccgtccag	gagcctgtgc	ctcctcacc	ccagctttgc	taccaaagca	2520
ccttagctgg	cattacagct	ggagaagacc	ctccccgcac	cccccaagct	gttttcttct	2580
attccatggc	taactggcga	gggggtgatt	agagggagga	gaatgagcct	cggcctcttc	2640
cgtgacgtca	ctggaccact	gggcaatgat	ggcaattttg	taacgaagac	acagactgcg	2700
attgttccca	ggtcctcact	accgggcgca	ggaggggtgag	cgttattggt	cggcagcctt	2760
ctgggcagac	cttgacctcg	tgggctagg	atgactaaaa	tatttatttt	ttttaagtat	2820
ttaggttttt	gtttgtttcc	tttgtttctt	cctgtatgtc	tccagtatcc	actttgcaca	2880
gctctccgg	ctctctctct	ctacaaactc	ccacttgtca	tgtgacagg	aaactatctt	2940
ggtgaatttt	tttttctag	ccctctcaca	tttatgaagc	aagccccact	tattccccat	3000
tcttcttagt	tttctctctc	caggaactgg	ctcaactcac	ctgagtcacc	ctacctgtgc	3060
ctgaccttac	ttcttttgc	cttagctgtc	tgctcagaca	gaacccctac	atgaaacaga	3120
aacaaaaaca	ctaaaaataa	aaatggccat	ttgctttttc	accagatttg	ctaatttatc	3180
ctgaaatttc	agattcccag	agcaaaataa	ttttaaacaa	aggttgagat	gtaaaagggtg	3240
ttaaattgat	gttgctggac	tgtcatagaa	attacaccca	aagagggtatt	tatctttact	3300
tttaaacagt	gagcctgaat	tttgttgctg	ttttgatttg	tactgaaaaa	tggtaatgtg	3360
tgctaattct	cttatgcaat	ttcctttttt	gttattatta	cttatttttg	acagtgttga	3420
aatgtttcag	aaggttgc	tagattgaga	gaagagacaa	acacctccca	ggagacagtt	3480
caagaaagct	tcaaatgca	tgattcatgc	caattagcaa	ttgactgtca	ctgttctctg	3540
tcactggtag	acaaaaataa	aaccagctct	actgggtctg	tggaattggg	agcttgggaa	3600
tggtacctgg	aggatgccca	attagggcct	agccttaatc	aggctcctcag	agaatttcta	3660
ccatttcaga	gaggcctttt	ggaatgtggc	ccctgaacaa	gaattggaag	ctgcccctgc	3720
catgggagct	gggttagaat	gcagaatcct	aggctccacc	ccatccagtt	catgagaatc	3780
tatatttaac	aagatctgca	gggggtgtgt	ctgctcagta	atttgaggac	aaccattcca	3840
gactgcttcc	aattttctgg	aatacatgaa	atatagatca	gttataagta	gcaggccaag	3900
tcaggccctt	attttcaaga	aactgaggaa	ttttctttgt	gtagctttgc	tctttggtag	3960
aaaaggctag	gtacacagct	ctagacactg	ccacacaggg	tctgcaagg	ctttggttca	4020
gctaagctag	gaatgaaatc	ctgcttcagt	gtatggaaat	aaatgtatca	tagaaatgta	4080
acttttgtaa	gacaaagggt	ttcctctctt	attttgtaaa	ctcaaaatat	ttgtacatag	4140

ttatttattt	attggagata	atctagaaca	caggcaaaat	ccttgcttat	gacatcactt	4200
gtacaaaata	aacaaataac	aatgtgtctt	cgggtgtgtt	gtctgttcac	ttttcctccc	4260
tcagtgcctt	cattttatgt	cattaaatgg	ggctcacaaa	ccatgcaaat	gctatgagat	4320
gcatggaggg	ctgccctgta	cccagcactt	tggtgtgtct	ggtgatggca	ccatctctga	4380
ttttcaaagc	tttttcagga	ggctattatt	ttcactgtag	aatgatttca	tgctatctct	4440
gtgtgcacaa	atatttattt	tctttctgta	accataacaa	cttcatatat	gaggacttgt	4500
gtctctgtgc	ttttaaatgc	ataaatgcat	tataggatca	tttggtggaa	tgaattaaat	4560
aaaccttcc	tggggcatct	ggcgaatccc	agctg			4595

<210> 67
 <211> 4025
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 330908.2

<400> 67

cgcatctga	ggtttcctcc	aaggccctct	gaagtgcage	ccataatgaa	ggtcttggcg	60
gcaggagtgt	tgccccctgt	gttggttctg	cactggaaac	atggggcggg	gagccccctc	120
cccatacccc	ctgtcaacgc	cacctgtgcc	atacgccacc	catgtcacaa	caacctcatg	180
aaccagatca	ggagccaact	ggcacagctc	aatggcagtg	ccaatgccct	ctttattctc	240
tattacacag	cccaggggga	gccgttcccc	aacaacctgg	acaagctatg	tggccccaac	300
gtgacggact	tcccggcctt	ccacgccaac	ggcacggaga	aggccaagct	ggtggagctg	360
taccgcatag	tcgtgtacct	tggcacctcc	ctgggcaaca	tcaccgggga	ccagaagatc	420
ctcaacccca	gtgctgtgaa	cctccacagc	aagctcaacg	ccaccgccga	catectgcga	480
ggcctcctta	gcaacgtgct	gtgcgccttg	tcagcaagtg	accacgtggg	ccatgtggac	540
gtgacctacg	gccctgacac	ctcgggtaag	gatgtcttcc	agaagaagaa	gctgggctgt	600
caactcctgg	ggaagtataa	gcagatcatc	gccgtgttgg	cccaggcctt	ctagcaggag	660
gtcttgaagt	gtgctgtgaa	ccgagggatc	tcagagagtg	ggtccagatg	tgggggctgt	720
tccaaggggtg	gctggggccc	agggcacgcg	taaaocccaa	tgggggctgc	tggcagaccc	780
cgagggtgcc	tggccagtc	actccactct	gggctgggct	gtgatgaagc	tgagcagagt	840
ggaaacttcc	atagggaggg	agctagaaga	aggtgcccc	tcctctggga	gattgtggac	900
tggggagcgt	tgtctggact	tctgctctta	ctgtccctt	tggcccttg	ctcactttgt	960
gcagtgaaca	aactacacaa	gtcatctaca	agagccctga	ccacagggtg	agacagcagg	1020
gcccagggga	gtggaccagc	cccagcaaaa	ttatcaccat	ctgtgccttt	gctgccccct	1080
aggttgggac	ttaggtgggc	cagaggggct	aggatcccaa	aggactcctt	gtccccctaga	1140
agtttgatga	gtggaagata	gagaggggct	tctgggatgg	aaggctgtct	tctttttgag	1200
atgacagag	aacttgggca	taggaacaat	ctggcagaag	tttccagaag	gaggtcactt	1260
ggcattcagg	ctcttgggga	ggcagagaag	ccaccttcag	gcctgggaag	gaagacactg	1320
ggaggaggag	aggcctggaa	agcttttggt	ggtctcttgt	tctcttcccc	gtgatcttcc	1380
ctgcagcctg	ggatggccag	ggtctgtatg	ctggacctgc	agcaggggtt	tgtggagggtg	1440
ggtagggcag	gggcagggtg	ctaagtcagg	tcagaggtt	ctgagggacc	caggctcttc	1500
ctctgggtaa	aggtctgtaa	gaaggggctg	gggtagctca	gagtagcagc	tcacatctga	1560
ggccctggga	ggccttgtga	ggtcacacag	aggtacttga	gggggactgg	aggccgtctc	1620
tgggtcccag	ggcaagggaa	cagcagaact	tagggtcagg	gtctcagggg	accctgagct	1680
ccaagcgtgc	tgtgcgtctg	acctggcatg	atttctattt	attatgat	cctatttata	1740
ttaacttatt	ggtgctttca	gtggccaagt	taattccctt	ttccctggtc	cctactcaac	1800
aaaatatgat	gatggctccc	gacacaagcg	ccagggccag	ggcttagcag	ggcctgggtc	1860
ggaagtgcag	aatgttataa	gtggaataag	ccttacgggt	gaagctcaga	gaagggtcgg	1920
atctgagaga	atggggaggc	ctgagtggga	gtggggggcc	ttgctccacc	cccatcccc	1980
actgtgactt	cttttagcgt	gtcagggtec	aggctgcagg	ggctggggca	atttgtggag	2040
aggccgggtg	cctttctgtc	ttgcttccag	gggctgggtt	cacactgttc	ttgggcgccc	2100
cagcattgtg	ttgtgaggcg	cactgttcc	ggcagatatt	gtgccccctg	gagcagtggg	2160
caagacagtc	cttgtggccc	accctgtcct	tgtttctgtg	tccccatgct	gcctctgaaa	2220
tagcgccctg	gaacaacctt	gccccgcac	ccagcatgct	ccgacacagc	agggaagctc	2280
ctcctgtggc	coggacaccc	atagacgggt	cggggggcct	ggctggggca	gacccagga	2340
aggtggggta	gactgggggg	atcagctgcc	cattgtctcc	aagaggagga	gagggaggct	2400
gcagacgcct	gggactcaga	ccaggaagct	gtgggcccct	ctgctccacc	cccatccac	2460
tcccacccat	gtctgggctc	ccaggcaggg	aacccgatct	cttcccttgt	gctggggcca	2520
ggcgagtggg	gaaacgccct	ccagtctgag	agcaggggag	ggaaggaggc	agcagagttg	2580
gggcagctgc	tcagagcagt	gttctgggct	tcttctcaaa	ccctgagcgg	gctgccggcc	2640
tccaagtctc	tccgacaaga	tgatgggtact	aattatggta	cttttctact	actttgcacc	2700
tttccctgtc	gctctctaag	cactttacct	ggatggcgcg	tgggcagtgt	gcaggcagggt	2760
cctgaggcct	gggggtgggg	tggaggggtg	ggcccgaggt	tgtccatctg	tccatcccaa	2820
cagcaagacg	aggatgtggc	tgttgagatg	tgggccacac	tcacccttgt	ccaggatgca	2880

```
gggactgcct tctccttctt gcttcacccg gcttagcttg gggctggctg cattccccca 2940
ggatgggctt cgagaaagac aaacttgctt ggaaccagga gttgctgatt ccaccggggg 3000
ggcccggctg actcgcccat cacctcatct ccctgtggac ttgggagctc tgtgccaggc 3060
ccacctgctg gccctggctc tgagtgctc tccccccag cctggacttg gccccatggg 3120
acccatcctc agtgctcctt ccagatcccg tccggcagct tggcgtccac cctgcacagc 3180
atcactgaat cacagagcct ttgctgaaa cagctctgcc aggccgggag ctgggtttct 3240
cttccctttt tatctgctgg tgtggaccac acctgggctt ggccggagga agagagagtt 3300
taccaagaga gatgtctcgg ggccttattt tattatttaa acattttttt aaaaagcact 3360
gctagtttac ttgtctctcc tccccatcgt ccccatcgtc ctccctgtcc ctgacttggg 3420
gcacttccac cctgaccagc ccagtcacgc tctgcttgc cggtcttcca gagtagacat 3480
agtgtgtggg gttggagctc tggcaccggg ggaggtagca tttccctgca gatggtacag 3540
atgttctctg cttagagtca tctctagtct cccacctcaa tcccggcatc cagccttcag 3600
tcccgccac gtgctctctc cgtgggccc acaaatcct ctttgatgaa tgtaccctgt 3660
tttccactga aaagcacatg gccttgggtg acaaatcct ctttgatgaa tgtaccctgt 3720
ggggatgag gtggggaact agagatgact ctaaggcagg aacatctgta ccactctgag 3780
ggaaatgcta cctccccacc tcaatcccg catccagcct tcagtccgc ccactgtcta 3840
gctccgtggg cccaccgtgc ggccttagag gtttccctcc ttcctttcca ctgaaaagca 3900
catggccttg ggtgacaaat tctctttga tgaatgtacc ctgtggggat gtttcatact 3960
gacagattat ttttatttat tcaatgtcat atttaaaata tttatttttt ataccaaatg 4020
aatac 4025
```

<210> 68
<211> 1628
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: g687589

<220>
<221> unsure
<222> 114
<223> a, t, c, g, or other

```
<400> 68
agtcagcacg ggggtgctgg aagagatcgg gaataatagc gcagaccaat gagcctaggg 60
agatgctttc atcgtctctc ctccctcaa gtgttctgga acctatcatt tganntagcc 120
gagtcaggca ggagggggcg ggaatcctt cgcctctct taggaggggc tgcattgcag 180
ggggagagtg aactgacaga ctcaagtcact gaagagggaa aaggagttag aagacaaagc 240
cgtcaaagcc ccaacagctt tgtatttctc cagcccgccg ggcagacccc ggagctccc 300
aggactccc tccatctttg gaacgcgcca gtaattgaat tgataacagg aagctatgag 360
ggaccctgtg agtagccagt acagttcctt tcttttctgg aggatgccc tcccagaact 420
ggatctgtcg gagctggaag gcctgggtct gtcagataca gccacctaca aggtcaaaga 480
cagcagcggt ggcaaaatga tcgggcaagc aactgcagca gaccaggaga aaaaccctga 540
aggtgatggc ctcccttgagt acagcacctt caactcttg agagctocca ttgccagcat 600
ccactccttc gaactggact tgccttaagg ccaagacttc tctctcccat caccttgccc 660
tcattgtctt cctctcaag ccccttctt tccactcct tccatttta atcttgttct 720
ctccctactg tgttggtggt gctgatgaat ctgccagagt tgagttctat gtattttatt 780
atctatctgt ctactccatt tctctcaaaa gccctcaagt caciaagtaa atggttcaag 840
caatggagta ctgggtcaca gggattcctc ctttcccccc caaatattaa ctocagaaac 900
taggcctgac tggggacacc ctgagagtag tatagtagt caaaatggaa gactgatttt 960
tgactctatt ataatacagc tcagagattc cttaaacctt cctaatttcc tgcctcaggg 1020
cagtgaacaa caaatatttc ttcaaggggt gatgaaaacc tcggaagttt taatttgagg 1080
ttatctgcta cgaaacagta tttctaaaag gctaaagtga taagtctctt gctttttttt 1140
gatcctgctc ttatattctt ttttttctc agagaaatca ggagggtagt tagagggtata 1200
aaacaggagg aaatattatg gaaaatgaaa atagggaata taattgaatc attttagaag 1260
tagctaattt cttttctcaa aagagtgtcc cttcttcaca cctactcact ttacaacttt 1320
gctcctaact gtgggttgaa aactctagct aaagaaagt atcaaatctt aacatgcatt 1380
cctactatta tgatagtttt taagggtttc attcaatctt ctgaacggca taagtcctat 1440
tttagcctta cctcctgcac ttgcaatacg taatactgat cagtgggcac agttcttcag 1500
ctacattgag accctgaat gaacaattat attctgactc gacatcttgt ccccaatcct 1560
tccaaaaata ttgatggtga tttgtgtctc catttactcg tttattttaa aaagacattc 1620
aattccca 1628
```

<210> 69
<211> 4395

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 197975.11

<400> 69

ggcactggggg	ttccaggaca	cctccgcccc	ctccactttg	agactcgtcg	agggcgaggc	60
ccccagcagt	gagactggca	catccctgga	cagccctca	gcctaccccc	agggccctt	120
ggtgccccgt	tccagcctga	gcccggatca	ctacgagcac	acgtcagtgg	gagcctatgg	180
gctgtactcg	gggcccgcgg	ggcaacagca	gcgcacgcgg	aggcccaagc	tgcagcactc	240
gacctccatc	ctgcgcaagc	aggctgagga	ggaggccatc	aagcgctcac	gctcactctc	300
cgagagctat	gagctctcct	cggacctgca	ggacaagcag	gtggagatgc	tagaacgaaa	360
gtatgggggg	cgcttggtaa	cccgccatgc	ggcccgcacc	atccagacgg	.cgtttcgcca	420
gtaccagatg	aacaagaact	tcgagcgctt	gcgcagctcc	atgtcaagag	aaccgcatgt	480
cacgccggat	tgtgtctgtc	aacatgagga	tgcagtcttc	ctttgagggg	cctgagaaag	540
tgcacagctc	ctacttcgag	gggaagcagg	tctcagtgc	taacgacggc	tcccagctgg	600
gagccctggg	gtcccctgag	tgtggtgacc	tcagcgagcc	caccaccctc	aagtctccgg	660
ccccctccag	tgacttttgc	gacgccatca	ccgagctgga	ggacgccttc	tctaggcaag	720
tgaatcact	ggccgagtc	atcgacgatg	ccctcaactg	ccgcagcctg	cacactgagg	780
aggcaccggg	cctggtatgc	gcgcggggccc	gggacaccga	accccagaca	gccctgcacg	840
gcagaggacca	ccgcaactgc	gacgagatga	cggcctcgta	cagtgatgtc	accctgtaca	900
tcgatgagga	ggagctgtcg	ccccctctgc	ccctctcgca	ggcagggggac	cggccgtcca	960
gcaccgagtc	ggacctgcgg	ctacgggctg	ggggcgcagc	cccagactac	tgggcccctgg	1020
cccacaaaga	ggacaaggct	gacacggaca	cgagctgccg	gagcacgccg	tcgctggagc	1080
ggcaggagca	gcggctgcgg	gtggagcacc	tgccgctgct	caccatcgag	ccaccagcg	1140
acagctctgt	ggaccttagt	gaccgctcgg	agcgggggtc	actcaagagg	cagagtgcct	1200
acgagcgag	ccttggcggg	cagcagggca	gtcccaagca	tgggtccccc	agcggcgccc	1260
ccaagagcct	ccccggggag	gagcctgagt	tgcggccccc	gccccccagg	cccctggaca	1320
gccactgggc	catcaatggc	tcagccaacc	ggcagagcaa	gtctgagtcg	gactactcag	1380
acggtgacaa	tgacagcatc	aacagcacgt	ccaactccaa	cgataccatc	aactgcagct	1440
ccgagtcac	gtcccgtgac	agcctgcggg	agcagacgct	cagcaagcag	acctaccaca	1500
aggaggcccg	caacagctgg	gactogcctg	cccttagcaa	cgatgtcatc	cgcaagaggc	1560
actaccgat	cggcctgaac	ctcttcaaca	agaagcctga	gaaggagtc	cagtacctca	1620
tcgagcgtgg	ctttgtgccc	gacacgcctg	tcggggtggc	ccacttctgt	ctgcagcgca	1680
agggcctcag	ccggcagatg	atcggcgagt	tcctgggcaa	ccggcagaag	cagttcaacc	1740
gtgacgtgct	cgactgcgtc	gtggacgaga	tggacttctc	taccatggag	ctggatgagg	1800
ccctcaggaa	attccaggcg	cacatccgtg	tccaagggga	ggctcagaaa	gtggagcgcc	1860
tcataagggc	gttcagccag	cgctactgca	cgctcaacc	tggggtggtg	cggcaattcc	1920
ggaaccaga	caccattttc	atcctggcct	tcgccatcat	cctgctgaac	accgacatgt	1980
acagcccaa	tgtcaagccc	gagcggaaaa	tgaagctaga	ggacttcac	aagaacctcc	2040
gaggtgtgga	cgatggtgag	gacattcccc	gtgagatgct	gatggggatc	tatgaacgga	2100
tccttaagcg	agagctaaag	accaatgagg	accatgtgtc	ccaggtgcag	aaggtggaga	2160
agctcattgt	ggggaaaaag	ccgatcggtg	ccctgcattc	cgggctcggc	tgtgtgctct	2220
ctctgcccc	ccgtcggttg	gtctgtact	gccggctctt	tgaggttcca	gacccaaaca	2280
agcccagaa	actcggacta	caccagcgag	aaatcttct	gttcaacgac	ctcctggtgg	2340
tcaccaagat	cttcagaag	aagaagaact	cggtgacgta	cagcttccga	cagtccttct	2400
ccttgtacgg	catgcaggtc	ctgtctttcg	agaaccagta	ctaccccaat	ggcatccggc	2460
tcacctcgtc	tgtccccgga	gcagatatca	aagtgttaat	aaacttcaac	gcccccaacc	2520
ctcaagaccg	gaagaaattc	accgatgacc	tgcgggagtc	cattgcggaa	gtccaagaga	2580
tggagaagca	caggatagag	tcggagctcg	agaagcagaa	aggcgtcgtg	cggcccagca	2640
tgtcccagtg	ctctagcctc	aaaaaggagt	cgggcaacgg	aacactgagc	cgggcctgcc	2700
tggacgacgc	ctatgccagc	ggtgagggcc	tcaagcgcag	cgcctcagc	agctccctgc	2760
gggacctctc	ggaagccggg	aagcgagggc	gtcgcagcag	tgcgggatcg	ctagagagca	2820
atgtggaatt	tcagcccttc	gagccactgc	agccgtcagt	gctgtgctcc	taagccatgg	2880
gacccgagga	ctgccccccg	gcgcctgccc	aggcgagggc	cctttcagaa	agggcggaagc	2940
tcacgcctga	ctctgcgggc	cgcggggcgc	gcttcccagt	ggacagcgtg	gtgagcgtg	3000
gccggacggc	aggaggagag	gggagcccc	tctggctgtg	tgtcaccttg	gctggctggc	3060
tggccagggt	tttgccgatt	tccctctcca	catccctccc	accctcggtc	atatcattga	3120
gatcaccgta	ccagcaaadc	tgcaaaacaa	gcactttgtt	aatctccaga	gagagcaaat	3180
acagcaatct	agagtttagc	ctttttaaaa	atgtgacttt	aaccgcccc	cctgtgtcct	3240
cccattggcg	tggcatttct	ttggtgtctg	ctcagaaaga	aacagcatgg	gaccgtgtga	3300
ttgggtccag	gctgggctgt	cagggaagcg	ccctgggtgc	tccgactcat	caattctcgg	3360
gtttttttta	aaagccaggc	tccccaaagc	actctttgtc	tcgcaatttt	gaggaggctg	3420
ttccgacctg	gaagcgttaa	actgctgcac	gtcatctggc	gtcagctgtg	aggctgcgct	3480
ctgcgtgtgt	gcgttgcaaa	atgtattggc	gtgactgtaa	acacatcgtt	gaagtaaagc	3540

gattacatat	tgagtatgtc	agctttttctc	acccttttct	gtgctgggag	gagagtctaa	3600
ctgtaacctt	taggttggtc	cagaaaagat	tcaggccgtt	tggcacagaa	ttgctctttc	3660
tgaagggtag	cagtaatgaa	taggaacaga	cagaaaaccc	caggaggggc	tttcaggaaa	3720
ctctccctct	ccatcgccat	cctgcaagct	ccacagcctc	gggctgccag	cctgtggcac	3780
tgctcctcgt	gtgtcctgga	gctgtgtctg	gcagcagggc	ctcgcgtaag	gaactgctgg	3840
aaccactga	gcccttcccg	gggtttcccg	cgcactcag	tgtgttcctt	caggctagtg	3900
aggtttcatt	ctgtttttatt	tgcaagctta	tcaaaagttt	gtggaagata	cattgtttgg	3960
ttccagaggc	tggagtcatg	ctgcccacat	cttgttttgg	aaagcaaaag	ctcccagtga	4020
gctggtgtcc	cctgtgtgtc	ttcatgggac	tgtcccccct	agagatccca	cctgtcagag	4080
ccacagcttc	ggggctcctg	catcacatcc	cctgggaggg	gaggcaggag	gaggccgagg	4140
gccccaggat	gtctgcctgg	tcccttctca	ctgtgaggac	gcccttggca	cacctttctc	4200
aagtacacac	aattattgca	gttacatata	gaattgctga	caggagcagg	agacgctgag	4260
ggaaacagct	ggcaatgtga	caaaagcttt	ttctgggaca	acaatcaaat	catgtatttg	4320
tattttttta	agtttaccac	tgaattgtac	aacaatgtaa	aaataaagtt	catcctaata	4380
tgctgtgcac	atctt					4395

<210> 70

<211> 4024

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 227928.2

<400> 70

tctgtttttt	gcagggagag	gtgatatcca	gcctcagttg	gacagtgtct	tccaagatgt	60
caatgataag	tatctcttat	tggaagaaac	agaaaagcag	gctgtccgga	aggctttgat	120
tgaagaacgt	ggccgattct	gtaccttcat	ctctatgctg	cggccagtga	ttgaagaaga	180
aatctcaatg	ctaggggaaa	taaccacact	tcagaccatc	tcggaagatc	taaaaagcct	240
gacctgggac	cctcacaaac	tgccctcctc	aagtgaacag	gtgattctgg	acttgaaagg	300
ttctgattac	agctggctgt	atcagacgcc	accctcttcc	cccagcacca	ccatgtccag	360
aaagtccagt	gtctgcagca	gcctgaacag	tgtcaacagc	agtgactccc	ggtccagcgg	420
ctcccactcg	cattccccca	gctcacatta	ccgctaccgc	agctccaacc	tggcccagca	480
ggctcctgtg	aggtgttcca	gcgtgtcctc	ccatgactca	ggattcatat	cccaggatgc	540
cttccagtc	aagtcacat	cccccatgcc	gcagaggccc	cccaaccagt	tgtctaacgg	600
gttttctcac	tatagtttat	caagtgaatc	ccacgtgggg	cccacgggtg	caggcctttt	660
ccctcattgc	ctgcctgcct	cccgctgtgt	ccctggggtc	acctctgtcc	accttccaga	720
ctacgtctat	tattacacca	ttggggcccg	catgttcccg	tcctctcaga	tccctagctg	780
gaaggactgg	gttaagcctg	ggccctatga	ccagcctctg	gtgaacaccc	tgcagcgccg	840
caaagagaag	cgagaaccgg	accccaacgg	gggaggacc	actaccgcca	gggggccacc	900
tgcagcagct	gaggaggctc	agagaccacg	gagcatgact	gtatcggtcg	ccaccaggcc	960
tggtagagg	atggaggctt	gtgaggagct	ggccctggcc	ctgtctcggg	gcctgcagct	1020
ggacaccag	aggagcagcc	gggactcgct	tcagtgtctc	agcggctaca	gcaccagac	1080
aaccaccccc	tgctgtctgt	aggacacat	cccttcccaa	gtttcagatt	atgattattt	1140
ctctgtaagt	ggtgaccagg	aggcagatca	gcaggagtcc	gacaagtcc	ccaccattcc	1200
aagaaacagc	gacatcagcc	agtcctaccg	acggatgttc	caagccaagc	gtccagcctc	1260
aactgtctgg	ctcccacca	ccctgggacc	tgctatggtc	actccagggg	ttgcaactat	1320
ccgacggacc	ccttccacca	agccttctgt	ccgcggggga	accattggag	ctgggtccat	1380
ccccatcaag	acaccctgta	tccctgtcaa	gaccccaacc	gtcccagacc	tcccaggggt	1440
gttgccagcc	cctccagatg	ggccagaaga	gcggggggag	cacagccctg	agtcgccatc	1500
tgtgggtgag	ggcccccaag	gtgtcaccag	catgccctcc	tcaatgtgga	gcgggccaagc	1560
ttccgttaac	cctccacttc	caggccccga	gcccagtatc	cctgaggagc	acagacaggc	1620
aattccagaa	agtgaagctg	aagaccagga	acgggaaccc	ccaagtgcga	ctgtctcccc	1680
aggccagatt	ccagagagtg	accctgcaga	cctgagccca	agggatactc	cacaaggaga	1740
agacatgctg	aacgccatcc	gaagggcgct	gaaactgaag	aagaccacga	caaacgatcg	1800
ctcagcccc	cgtttttctt	aggttcacaa	gaaatgcgcc	ggtggggaat	gaactgtttc	1860
attaataaaa	cctaatttgt	cttgatccat	tccactctat	aataaaaaca	aagattttgt	1920
aggcaactcg	gaatatagct	cttttgaaag	tactcgacac	ctttagataa	gaattaaaa	1980
caacctatgt	aactgacata	atcttgatct	tttaatttgt	aaatattgac	aattttcttt	2040
ctgcacattt	taatcttagt	ttcccttttg	attttttctg	aggtgccaaa	ttccatttaa	2100
cttttttaca	agtcttttga	aaattttaaa	tgcataaagg	gggttggggc	aggggaacca	2160
cgaagtagtt	aatttttagaa	aaggattttac	tatacttcac	tcttcttttt	ttttccccc	2220
aagcttttgt	agatgcattg	tagtagtcta	gcttagaagc	aaatgcaagt	tatttttaag	2280
tacaaactaa	atgggtaaga	ggtaaaatct	tcattttaat	atactatgtt	ctggatgaaa	2340
agagcaggag	taacaattga	tgagcaatat	tcagagtga	gtaaatctgg	aaatggtaga	2400
ctgtgttggg	attggggggga	gggccatggg	aggggtacat	cgtcaacata	gccgatcctg	2460

ttacatttaa	gagtagcctc	gtaggttgaa	tttctcttgg	tagcttcacg	gtaaatgcac	2520
ccgaataagc	catactggat	tgcagtggtt	gtttctgtag	ggtgtttaag	gacttgactt	2580
cctttctccc	atgattcctc	tggactgcac	acagcaccca	caaccagccc	catgcatgct	2640
gctgcctctg	ggcagtcgta	gaatctccca	cttcagtttc	togttgattg	tactcacctt	2700
tatggaatcc	aaatacatcc	aaaagggtaa	ggcagtttta	aaaatgtgaa	aacattttaa	2760
aatgataata	gcagggaatt	cttagattat	agtaaagtcc	ttttacttaa	ctgtgcccag	2820
caggctgggt	gcgttaaaaa	gcccagtat	tttgaaaaaa	ctcgaacaga	tttgacaagg	2880
gtagccagct	tggagtctag	caacttgcca	atgtgtttac	caatctgggg	gcttgttttt	2940
ctttctctct	ttcaaatata	tggcagttaa	ctggctttac	agtaaacatt	gaagagagga	3000
ggatttggtt	attgtcactg	ggaatctgac	cactatactg	tccttttttt	gtattctggg	3060
taaatgtttt	ttggaataaa	tttgtctttt	ctaagtggaa	gttaaatttg	ttatactgcc	3120
catcccctaa	agccaacaga	gattttaga	tttaaaggga	tcacatttga	agacaatagt	3180
gtttaagaaa	gcaagcaagt	cccttagcag	tcaggtcata	acagggcaca	tttctgaccg	3240
aaccctctca	aggcagagga	ggagtttggg	gggtttcata	cacctgcag	attcctggtg	3300
gctctaacc	tcaattacct	aatcttatgc	tttaacacat	aactgcattg	gatgtgagag	3360
taacgtaccg	tatggtcatt	gttctatata	ttacatttga	acactgctgc	gattgtctca	3420
ggacatttta	tgttacgggt	ttaaagcaaa	ggcatgatta	ttagaaacta	tttaagcttt	3480
tttctttgaa	aaacaagctc	cttttacaga	atataaacia	cagtagtgcc	tgtgggttag	3540
cccaccaatc	ttgatgacta	aaagtagctg	atgcattgtg	catatgatgc	ttgagatggg	3600
ttttgcaaaa	gcagaaatcg	ctgcaaggtg	atcacaatag	ataaaagtgg	tatttttaaac	3660
ctttgaaata	aatggatgta	actgtacctt	ggtacagctt	ttcacttggt	tagtttttaa	3720
acgttagtat	aatctgaata	aataaaatgt	tgccaaattc	aatgtagaaa	gaatgtgaca	3780
acacaccttg	ggtagttctg	cttgtgtttt	tgcatattgt	aaaagcagtg	tcacagctaa	3840
aaagaaagaa	atcgtttcta	acagtaaat	attgtgcttt	agttgctagt	ttgtactgag	3900
agttgacctc	tcctgtgca	gtttttgtt	ctaaacttgt	ataaataaca	attgtgtaat	3960
gtgtctccct	cctacattgt	aacaattgct	tcagcctacg	ttataaataa	agaaccacta	4020
gatt						4024

<210> 71
 <211> 3733
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 258785.7

<220>
 <221> unsure
 <222> 1042, 3012-3106, 3193, 3593
 <223> a, t, c, g, or other

<400> 71						
gagaagagga	ggaagagatg	tcagtggtgac	agaaggagga	gttagacctc	cagacgtcag	60
cctccctccc	atggggatca	ttttcaatct	gagtggtgtt	gccttagctg	tggtgggtatt	120
agcttgattg	gttgggtccg	tggttatataag	gtgtaggagg	gcagtttttg	tttagttttt	180
aggactttgc	ctcttccttt	gtccttagca	taatttctag	gcagagcatc	cacgaagtgc	240
gttttcattg	ccagctcaag	agcgacaatc	atttacgagt	tcctatgtta	tgtaggtgc	300
cttatgtata	ttatcccaaa	tcactgcat	ggtttaaata	caggcactgg	aatataaatg	360
aaaaagggtca	ttacagtcac	tgactttctg	caggacctta	aacattttctc	tttccacaag	420
tttccctcta	atcatgtgtc	aaacctctct	tcctgacggg	aatgtttgtg	tataatgaat	480
ctgcataacg	cttgggattc	taggaggaag	gaagggtcca	tgacatgta	agtacagcat	540
attccctcca	gtcttctagg	agggcagagt	gaatcccaga	actggtaaga	ttgggaatct	600
gagcattgcc	actttaatct	tagaataatt	atcattttga	cacatcctgt	tttttagaga	660
ggaaaacaaa	cacagtttct	gcattggtag	tgtaaagcat	accttggttag	gaacgtgttt	720
tgtaagacac	atttgggttg	tcattctaga	gcattgtcaa	ctttgtactt	caaaatatat	780
ttagtatgat	tgtagtggtg	aacatatatc	aaggctttga	attaactgtt	ttatttaatt	840
ttcacaagaa	gcacttatct	tagccatagg	aaaaccaatc	tgagctacaa	atagttcttt	900
aaaataagcc	caggttatct	agctattcta	gaaagtgcgg	acttctttca	agaagcaggc	960
attgtaggac	agctgagaa	tatcacatag	cctaaattct	agcctggcag	caagagtcac	1020
atctgagatg	ttcaaaaaaa	anaaaaaaaa	acacctgatc	tacattgaaa	gggggtagac	1080
taacgtatgt	gagaccattt	tcctatttgc	agttacaagg	ttaaagaact	ttgaagggtca	1140
ttcggtctgt	aagaggcatg	tcgaacactc	tgtgtggctc	tttcacagta	aacctccta	1200
agagcagaag	acacatgggt	gttagtgtct	gcgttttagat	tttaatttctc	aaataaaggc	1260
ccttggtctg	gtatcatctt	atccagttat	aaactagggc	tcctgcaagc	acccccattc	1320
taaggggtgaa	ttattgaaat	cagttgtat	ttgatgagtc	acaactggcc	cagcaggcag	1380
ggcatttgaa	gtcatgggtca	tcaaaaagaa	atgattgttt	tttgaaaagc	taaatgctta	1440

```

aatgcttct agaggggaagt cgtggggcgt gtgtcattc tctttaaaat caggggtgtt 1500
gagtttgttt ttaaaccattt ttataagttc atgagaaaaa atatataaat tctaagaacc 1560
aacactgtat tcccagaaac atgaccctcg ctgggtcttg gtccacatat cattggactc 1620
tgggggacac aaagatgcct gtgacacttt ggtgttgccg agttagtcaa caattattct 1680
gggaaaaagc agaattgaat tcttctctag atgtcctacc aggggtggcc aagggccaca 1740
aagcaggcta ataaattccc acaggatcca gacaccaggc aaaattgctc taagaagcca 1800
gttactgtca tccctctatg gttctagaaa aaatagtaca aaaatgacag gtcactctat 1860
gagcgtcatg ccaatgaac cccatcttct ggagaagccc ttgaatcaga attatctttt 1920
ttcttgatgt cgtcaggatgc agccagtttc ttaatttttt taaaaactgt atgtttctgt 1980
ggatgtata tttgtacacc taactacctg gcacttggaa atcacagcac tactcagagg 2040
caattgaata aagagaaatt taatttttaa tatcaagtcc tgtcaaacat ttctcaaact 2100
tctgatttta tcaaaggttt gccagccaat aaagtgcac ccaagtatac agggggagaaa 2160
gctagactcc tacagggtcc tagagtttaa gtaatttttt tgttattaat ataggtaata 2220
atttttctaa tttttatttt ttggttccaa atgtaaagct ccttgtgttt acctctgttt 2280
atgtcattct tgacatgttt atctaaatta tgtgtgctct gtgacagggtg aaatgtaaat 2340
ctgggatcca tagtcaagat atcataagga cctacttccc agcctacctt tcttctctta 2400
cctgataatc atataactca aaataacaac attcaaagga aacacaaaga aatcctgctt 2460
tcacatctcc tatttcttgg gtcctttaat aactactgat ggtttgttca tgaaaaaaa 2520
tttttaaatc aaaagattgt acttggccct gagttgaaaa aatttcaaaa atcaaaagtt 2580
tgtacttggc cctgagttga aaaaaaaaat tcacattcta agaataaaca gaaaaatgtt 2640
cttcttgaa gtaataaaca aaagccatag tgttttcatt tgtcttttct tcaggatata 2700
cggtagaagt cagagaatct ttgatacttt tatttgggtg aataatcaag gccatgcaac 2760
aacccaaaat caagcatttt ggttcaagtc aggatgacat gagtggggac agaagctgtg 2820
gcagtcatc aaataatctc atgggtcctg agggaaaagac agggagttaac gtattaagtt 2880
tctactatat gcaggaactg tgttaaatat tttacataag ttttgataat agctaacatt 2940
agctgagcac aaaaatttgg cctgatttgg tctgagtat cttcacaga ttactgcttt 3000
taatcagcag tnnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 3060
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngatg ttaagtaatg 3120
gcccttggat tcagtctgca gcctgaattc ttaaccaatt atactgtgat ttcattattc 3180
ttcagaatta cantaaaaag aaggtattat tccccatttt acagatgagg tatctaagct 3240
cagagaagct aaacaacttg tgcaacaatc actaagctta taagcagtgg attagggtta 3300
gatttagata tttgtctggc atccaaacct gtgctctccc tacagtacca catggtttcc 3360
acagtctcat cagaccocgg aatttcactc cctgagactg ctttaattgtg aatttcccaa 3420
actgattcac caagagccta ctgtctctgc tttgtagata gctttgacca cattcaatga 3480
cattaggaaa gactccattt cccaagatgg ctacagaaat cagatgctat gacgcatgtt 3540
gaaagtgaac acccatctct gagaaagaag catctgtttt attagtaaaa aanaaaaaat 3600
gaaattttaca gcaatgttgt gtgacttctc aaaattcttt cattttctta tttcagaatg 3660
aatagtgttg ttcgttggct gggaatgggg aagaatgtga tttttaaaaa taaagcataa 3720
tcaaactctg cat 3733

```

<210> 72

<211> 7325

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 977757.3

<220>

<221> unsure

<222> 4103, 4411, 4430

<223> a, t, c, g, or other

<400> 72

```

cggacgcgtg ggctgctgcg gagccggcag cgcaggcggg cggagcggag ctgccccctg 60
ggtggcgggc gatgcccccg tgagcctccc tcgcgcgccc tccccgcccc gcgtgcctat 120
ccactcggag tccgcgccag cctggggcgc ggccgcgcct actgcggggt tcgcggggcg 180
gggtcccggg gcagcacctg cccgcgcttg cggagcgcgc tcggcctgtg gaggccccct 240
cctgtcttgg accccggccc cacctccgga cccctttatc acatcgctc ctctgggagc 300
ctgcctgat tgccctcacc tcatttcttg ttttggcgag agtcaattga 360
agccttgtgc aaatgcccta ggggtgtgct gttgggaggc agccccctgt gatgcggaac 420
accaggctca gattcatcag ttcgagctgc ctgaggccct gccaccocgg ggaccatgtt 480
taacggggag ccaggctcct cctcatctgg ggcctccagg aatgtggtgc ggagctccag 540
cattggcggg gaaactctgc gatccagca agccgggggc ggggctggga ccaccaccgc 600
caagaagcgg gcgagcagcc tgggtgccaa atcgtggggc atcgtggggc tgactcagtg 660
gagcaagagc acactccagc ttccgcagcc tgaagggggc accaagaagc tgccgagcaa 720

```


catccgcccgg	agcacgggaga	caggcatcgc	ggtggagatg	cggagccggg	tcacacgcca	780
gggcagccgg	gagtcacccg	atggggagcac	caacagcaac	agctccgacg	gcacgttcat	840
cttccccact	acccggctag	gggctgaaag	ccagttcagc	gatttcctgg	atgggctggg	900
accagctcag	atttgtggggc	gacagacact	ggcaacacca	cccatggggag	atgtgcacat	960
tgccatcatg	gaccggagtg	gccagctgga	ggtggaagtg	attgaagctc	ggggcctgac	1020
ccccaaacca	ggctccaaat	ccctccagc	cacctatata	aaggtttacc	tgctggagaa	1080
tggggcctgc	ttggccaaga	agaagacaaa	gatgaccaag	aagacctgtg	atccccctga	1140
ccagcaggct	ctgctctttg	acgaggggacc	ccagggcaag	gtgctgcagg	tgatcgtctg	1200
gggagactat	ggccgcctgg	accacaagtg	cttcatgggc	atggcccaga	tcagtctgga	1260
cgactctggac	ctcagcgccg	cggtcacccg	ctggtaaaaa	ctcttcccca	ccctcctcag	1320
ggcagactcc	acactcggat	ccctcaccag	gcgcctgtcc	cagtcttccc	tgagagagtgc	1380
caccagcccc	tcagtctctt	aaggatgtca	ggaagaggcc	aggatgggtg	tgtggggagg	1440
ggtgcctgct	ggccccatgt	ctctcccctgt	acatagtctt	cgtgtctttc	tgaccctctt	1500
gtcctctgct	atgctctgtt	gctactgggc	tcataccagc	tggcagtggg	gactgtagtgt	1560
tgtgcgtgtg	tgctgtcgtg	tgtgtgtgtg	tgtaactgac	cacgttctat	ctgttcattt	1620
gtctgggtat	agtcactcct	ggtgatgata	tgggctgaaa	tgtctccacg	tctctttgtg	1680
tcttgttgaa	aagaaaccca	aaggagtgtt	gtgtggacat	gactcaccct	gaggagtctc	1740
cagggatgga	ggtggggcat	gcggccactg	ctcggtgctg	cctggctctg	gcctggggga	1800
gagcctgtgt	gttcttccac	tgtgcctgtc	cctgggtgtc	tctgctttgt	ttctgtctct	1860
gtcttttggg	tccccctctg	actctcccgg	ctctgccact	gttttctgag	aaatgtagca	1920
tccgctgcag	ctggccacac	tgagggccct	ctgggaaccc	cacccactg	gagccgctcc	1980
ggcagctctt	cctggcactg	aatgcgttct	gcagcatgta	gcagcccac	ctagctccct	2040
ggccagggcc	ctggggaggc	agaggggtacc	caggggactg	agggcttaga	aatgactttc	2100
tctatgaggg	tggaacctcc	tccttcttcc	agtgaagcac	gaggtcttgg	ttccaggggt	2160
cctggccagg	tgccccctta	gcatttgttc	ttcatctcct	gtctcttcaa	gcctccccac	2220
tccaccgtgc	cgaaggagct	ctgccagtgg	gcctgggcag	gcagccacag	agggcatgtt	2280
atctgtctaaa	gcaaacagtc	ctcctgaggc	ctctaggggtg	gcctgaccc	cctcagggtc	2340
cattctctgg	gggcactgact	cggtaaggag	gttctgtggg	tagggctgtt	tgctggaata	2400
aggagggctg	aggctgagtt	gttccccgcc	actgttgagg	atcccatctg	acatttgggg	2460
attcactgca	tgaagtgttt	catttggggc	tccagttttt	gtgcatttcc	agaccagggg	2520
ccctgtctgg	gagctgcagc	ttagctgggc	ttcagcagcc	tggtctcggg	ctctcgtctg	2580
ccaccatcac	cagctctgtc	taagcaatac	ttaccctccc	gggcttccct	gctttcctgt	2640
gccccactgc	tgccctctgc	agagccatct	gctccaggca	cccactgcc	tctgcttgc	2700
ttctcaccca	tgtctgggtg	gagcttctca	cagccactca	aacctgact	tgatttgaca	2760
actgggccc	gttgggtggg	accagtgcct	gaactggacc	ctgtgaaatc	tgtcccgtgg	2820
gaatcctgaa	gtctgactga	ggaatgcccc	gacctgtccc	tgtccctcct	cagctctagg	2880
gtgaaaggcg	agaggttgca	caggacatgg	acagagcagc	ccttgggttt	gtatctggta	2940
ggggagaaa	cagcaggaca	gtggaggtgt	gtggaaaggca	ctctttccac	ctctctccag	3000
gcattatccc	caggtctcga	aatggctgtg	gccccagcac	ctgaggcagg	ggtacgctac	3060
ctggggtagc	agtgaagg	tcttgggggtc	tgaatgactt	ggggcctcca	ttcataacca	3120
aagttgtagg	ggcatggagg	cagtggcgcc	ttatggatag	gtcatctcag	cccaaagggc	3180
ctccttggct	ggcatggttc	tgtgttacgt	tgaagccaga	gtcttataac	acctcccaag	3240
aaagataggg	gaagaagcca	gaaccccacc	tggcctgccc	acaggacaag	aagtgggtaa	3300
gggcaggga	gagttagctc	ccaggctcct	ccaggctcct	atctctgcct	gagcctctat	3360
tcttatatta	tcagagaaa	ggaccattgg	gtgcatagag	atggggagga	ggccactggg	3420
ctgaattttc	tctttaggcg	gaaatgctct	ccccaggccc	attgctgtcg	tcaagtctct	3480
ggaaatggac	aaagggctct	gtcctcctcg	acctagtgg	gggatcaaga	aggaaaactcc	3540
gttgcaaaag	ggtatttttaa	tctcctgttt	atgatataatt	cacctctaga	gcagtcaactg	3600
tcagggtgtt	gcgaaaatac	tctacacctt	tgggatgata	gggttggttag	tgaccacacag	3660
gacagtatag	atgtttgttg	atgtagcact	gagtgggtgat	acccagacca	gcagtcaccc	3720
caggaagtgg	gggctaccca	taccctcatt	cctctgggtg	ggagctgcct	gcagagaggc	3780
ctgccactgg	gggttccagg	ccgtgggtgac	ccttgctctc	ggggaagggt	tagcacaggg	3840
gaggttctag	ctggaggagg	ggtctgatgt	gctggtaact	tggtctgacc	tacctacagt	3900
ccctggctgc	caaaactgct	cagcagttgg	gccactccac	tattccacct	ctctaaaaga	3960
aggtaatttc	ctccccaaat	tgaccttggg	gaattattct	tttaacctt	tgacacaaat	4020
aagttactca	tccccacctg	gattttacc	catgagggtg	aagttgtgtg	aggctgacac	4080
gtctgtgtga	tgcatgtgtg	ctncaactta	gggtctgttt	ctcagcatca	tggtatgcag	4140
agcttgtctg	aaaagccact	ctggacctag	cctgtcccag	aagaggagaa	tgacacaagt	4200
taactcctgg	ttgtttgctg	gggtggggga	gcactctgctg	tttgaggacg	gggggtgggg	4260
aaggaaggaa	catgatacc	ccagaagtct	cccacctgg	ggccaactca	ctgccatgtt	4320
cagtgtccc	gtccaaaatg	ccccttgcc	cagatgaaac	cctgcagtgg	ttacagggaat	4380
ggagctcttt	gtcattccac	ctcctctggg	ncaggcgagg	ttcactgtgn	catatggcag	4440
agacaggagt	ggccctgcag	tgatgttggg	ttgtgggcag	ggacagtgat	ggatgactca	4500
gagcgtctgt	ctttgtattt	ctgctctgtt	cattctgtcc	cactttcttc	atagactcct	4560
tttccctgca	atgggttttt	ggtatgaaaa	aggctccagt	aaatggagcc	aagcttgggt	4620
ttgacaagg	gaacttgatc	cttcaggga	gaatcatctc	caaaatgact	ccccatctgg	4680
tttctctac	cacccaattc	tactaggaaa	ggagcactta	ggaggtctct	gggatgcagc	4740


```

aagtcccagg caatgccagc atttcatggg ggctgaggca gaacccagga gctccaagaa 4800
aggccacca tagagctcat cctctgtgga atcactgccg gttagaacac tgagggtcaag 4860
ccagtcctcc catgggtcatg ccacccacca gggaagcatg cctgatctct tctttactgc 4920
cagcttgag gagagcagaa gcctccattt ttaaagacaa taaagacctc caagggtact 4980
tctttggaaa tgaaatgtag cacaatctta gcctacgtta ccaggagccc tgacatgcaa 5040
ccagggcccc tcttccatgc cctgctgccc aggagtgtgt gagctcctct tcccctgggg 5100
ttccagccct cctaatacct catattcccc atcttccctca gccagaaaag caatggggct 5160
ttagtgatgc tectcttttg tgtctctctg gttgcctcta gcactgtgca aactctgcaa 5220
gaaattgctg cctttgcttg atgttgtaga tgagttgccc tccacctggc tggagagatg 5280
gcacatcatt cagggccaga aggttggtcca gcagtgtttc tgcagtggct gcaggagat 5340
ggaaaagaag agccctgctt ccctgcctcc tcttaccctt ctcttccact cctcagagtt 5400
ttcttctcca gtatcctgac atgtaaagag attctttaa atgctgcttc ttctactgga 5460
ctgtctttca ctgagtgtg agggaggaga tgaaaatgtg gacacatccc cccgcttct 5520
ccctcaacct ttctactcac gtcagaagag gttggggcaa aacaaaacaa gcatgattga 5580
agagcagggg aagcccacac aatcaggtga gcctgatgg gggctggact ggcctggct 5640
ggctgggaaa ggattctttt aaaagcgtgc ctgagcatct cagagcaatg tcagtgatgc 5700
caaagagagc aacttggcct ccttgggcac caactctgat ggctgagttg cacaaacgtg 5760
gctcagatgt tggcatgccc gatgttgga ccttgttctc tgataaaggg cttaatcttt 5820
ccatgtagca aagcaacttt cctccctcc cctcccccg aacctgagc ttgggcttgt 5880
gtgggcccag catggtgtgt cctgtgaggg aagccacatc agtgagagaa agttgcattc 5940
tctcagggg ctgattggc ttggggcagg tgcttgttga aaagcatgag tgtttctgct 6000
ttgggaaacc cttccagggc tctgggttga aacttggcca gtaaggacag ggccttgggc 6060
ctcccaagga gttcacaatg atgccaggaa ggttccctga gcttgggttc cagtcagctt 6120
ggctaacaga atggggcttg ggaattccag gggcaactga gcatccacc cattagccag 6180
tgatctggac agggacagct ggctacaggg aatcaaaggc tgttctgtac agttttacca 6240
gaaactgtga ccttgggtaa ggctcctcac ttgttctggg ccatcaactt cctcatctgc 6300
acaaatcaga gcattagctg ctctcccat gatccctcc cagttttaat taaaagtctc 6360
tgatctggag cacatgaggg ttgcgagcct ggtgcacctg gttcctgtct cctggtggctg 6420
gtttccttca gccctgatg cccaggtctg gtgcaggctc tcatctggtc catgccaga 6480
tgtgcctca gacaagaact ctgggaatcc taacagactc tgcttctctc tcttcgtggt 6540
ttgtcctccc ttttttattc ttgtgtaatg atgagacata attaagggtc atctacaatg 6600
gacaattttc aaggtgtctg tgtgatgtca caacctccgc tacatcctga gtaagtcagt 6660
gtcccaacaa gcagatgagg ctgggtcttt cctcatttct gcttctggga tgacatcagt 6720
gggagagttg aagatctgag aattctaaag gaaatgttct ctgatgggag gagagagga 6780
acttatttcc cttcaaagta gtttgettct taagaccact cctccctcca gaatgtctt 6840
aaccagacat catttcagaa ggtggggcag ctgcttccct aggaagagtg ggcctgatag 6900
ctcaaccaac tccttttagca tgtaaactca cagaaggcaa gaacccctt ttttagactt 6960
tccaaatgca tcctgcaaag agagagatag ctgataggga ctgacaagca cactgtttag 7020
ataagaagca attagccttt tatatctgtg ctctatacat tttctatgtg cagcatcttt 7080
cctaacttgt tgtggttccc ggttggcagg tgcacagctg ggagggactg cgggctgttt 7140
cgtacaacat tcttgccaat tcccttgagg agaaaattct tcacatggct tctgcatgta 7200
cagtatttgg gcagcaaac atgattaaag tcagtttgaa aatggtttca tgtgttgctt 7260
tctgtagatg gttcttcatt ctagaaggaa gaaaacaggg ttccaggtgg ctacaaagag 7320
gagga 7325

```

<210> 73
 <211> 2979
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 232773.2

<220>
 <221> unsure
 <222> 1465-1497
 <223> a, t, c, g, or other

```

<400> 73
gcataagcca coactgtccaa ctgaaattct taataattaa taatttttga gcaagaggtc 60
cacactttca ttttgactg ggttcccaaa caggtcctgg gtaggaagga tggctgagga 120
taaaacagga gttgcttttg cctggctgaa cattgaacc aatgatcaga gtttcatttt 180
atgatttgtt tactctgaac agatttgcta tttttttcca gctacattta gagttcctca 240
tgtatataic acccctcttt ttccagtcca tctaacctct cttttttttt tgggtgctag 300
aatcagttct ccttgccttc aaaatccctg ataaagtgtc atttcttttt gtatccttgg 360
atgtagaagc cacaagaatg gcttttagcag cttattttta tcttatgaat tattcattca 420

```

```

ggatttttta aatgattcag atgctttcaa tctgttaaca gtatttataa aacatgtttc 480
agtgatacaa cataggtgaa ctaaaccaaa gatgcaaag ccttgaggga aaagaaattg 540
tattatagag aatcctgaga tatatccttt tgggttggtt aatttaaagc ctatcacaaa 600
acaaagagaa ttgtcgcaact ttaattccaa cctcctgcag tacttcacaa cccttagcat 660
aagattctga aatttgtaat aggtgggtacc tagtttgatg caggggtttg cagcagttgt 720
gcgaatgcct ctgcgcaacg gcctttcagt cagactaaat gagaaaatcc aaactgtcct 780
atcaaaactg acccacaata actgtactct gaggcgaaac agagcaaagtg tgggtttcct 840
gttttcattg taaaacattc caggtttctca gattgaagag ctacattcag ctgatagttg 900
acatctgttc cctcacaggt agtggctctc aacacgggct gcactttgga atcacctgag 960
gacctttcgg aatcttcggt tgaatcatcc tggtgtcct ggtgatgctt cttatgtgca 1020
gctaggctgg agaaccacta cagggctgac acctggaatg ggagcttgta acttttaca 1080
aataatagat gtttatcatc ttttgcaatt tttactttta agtctatact aaaatgagcc 1140
aaagaagctc taacaatgat gtatggcaca attgggttgg tgaggctatc attccatgat 1200
tacaatagg tggttatgtg ggggtggttt gcacttggtg caattggact gcaatttggc 1260
cttaaaatga cacaattcct cgttctcaga tggagaggaa ttgccttgaa atttgcattg 1320
accagactaa gtgccagtat atatatgact gatattttcg tgactcatag aaggtgtcca 1380
tggtatagag tttatgccta catctctatc tttatttttg gcacacatga gcttttgta 1440
attatttctt tgtacttgtt agaannnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngat 1500
ttgtggtgga ttcaccttct taaaataata aatttagagg atattaggaa tgacattcaa 1560
aacaatatata gtgagagggt attttttaaa aatttttggt cctgggttcc aaattatggt 1620
tactttgatt tgattatag ttggtatctc ccaaatatag gtttaacttag ctatttaaa 1680
ggtatctttt gacattttaa aagaattaag tacctgtcaa atcttgcat gaggttgcat 1740
ttgaataaga taaaagctta ggaagtcaaa aaataatata gagaaatatt ataagatttt 1800
atgattattc ttgaagtttt tgatgcaaaa ggaaaatatg ctgaatagtt ctccaaaaa 1860
atattatttc cctcaatatt ttattttagt ccattgtaatt taaagagaac agaaaaatac 1920
tgcaatcaaa agtatggttt aatatcaatc aaagtggcac aacagaattg ataagatctt 1980
tataacaatc aattggctga tattaaaata ttgattttta ttgatctttt caattaaaa 2040
ctttagggcc tgtaactcat aaaatcagca tccaccacaa tatatggtca ttattggttt 2100
gtaagcatag atcaccattg actcctacct tagtacacgt tgtatatata tatatgtaac aaatttggt 2220
gttttcagta tgtgtgatgt cctttggggg ttatttatct tgctgggtcca taggaggggt 2280
acactacccc aagaatcaag acatctgagt tctagttcta gttctagctc tgccactgaa 2340
gagccacctt acctggggca agttagccat tgtctcccag tcatgtttac caccatgaa 2400
aggactcgte ggtttgatgt ttccattaa gctcaatgag aactctaata gttactcttg 2460
aatctggatt gaaaaacacc atgcattcga tgagataatt cataaatgtt gcccttttt 2520
taaatgatac aaccctaaaa gtgactgaat tgcccaagt cttgaacatg gcagaggtag 2580
ttactcctat ttgacagttt gtgcacttaa aaattcctac agtgattgtt actttactgg 2640
ggaaaaaaga tgaggtgaaa ctctctccca aggaattaaa atatctgtag aagccatggc 2700
ttgcttttat aatgtggaaa tcatttgatt tgctgtaatt cacgcagatc cctccttttg 2760
tcagggggaa atgatttgca tcatgttctt ttctcataat gcttttactt cctggttgga 2820
tcagttgtat gtaaatgtac atttttgtta ctttggctgt gcccgtaga atttatctt 2880
cataaagtat ttctcccatg gagtctaatt atgtatactt tgcctaggtc tttccaaaat 2940
taaatttatg taaatgtcta ttttatataa aatatgatt 2979

```

```

<210> 74
<211> 4408
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: g6634024

```

```

<400> 74
gggcgcggag ggcacgccca tggcggttct caaactccgt gaccagccat cactggtgca 60
agctatatatt aacggagatc ctgatgaagt tcgagcacta atattttaaga aagaagatgt 120
taacttttcag gacaatgaaa agcgaacccc attgcacgcc gcagcttacc ttggagatgc 180
agaaatcatt gaacttctta ttttatctgg agctagagtt aatgccaaag acagcaaagt 240
gttgacacct ttacacagag cagttgcatc ttgtagttag gaagcagttc aggtactttt 300
gaagcattct gcagatgtta atgtctgaga caaaaatttg caaacccctt tacatatagc 360
tgctgctaata aagctgttaa agtgtgctga agctttggta cctcttctga gtaatgtaaa 420
cgatcttgat cgagcagggg ggactgcatt acatcatgca gctttcagtg gacatggtga 480
gatgggtcaaa ctactcttgt ctagaggtgc caatattaat gcttttgaca agaaagatag 540
gcgtgctatc cattgggcag catatatggg tcacattgaa gtagtgaat tgcttggtgc 600
gcatggagct gaagtgcacat gcaaggataa aaagtcttat acacctcttc atgcagcagc 660
ctctagtggg atgtacagcg tagtcaagta ccttctagat cttggagttg atatgaatga 720
accaaagtc tatggaaata cacctcttca tgtagcctgc tataatggac aagatgttgt 780

```

agtgaatgaa	cttatagact	gtggtgctat	tgtgaatcaa	aagaatgaaa	aaggatttac	840
tcctttgcac	tttctgctg	catcaacaca	tggagcattg	tgttttagagc	ttctagttgg	900
caatggggcc	gatgtcaata	tgaagagtaa	agatgggaaa	acccactac	acatgactgc	960
tctccacggt	agattctccc	gatcacaac	cattatccag	agtggagctg	taatcgactg	1020
tgaggataag	aatggaaata	cccttttgca	catagcagca	cggtagggcc	atgagctgct	1080
gatcaacact	cttattacaa	gtggtgctga	cactgcaaag	cgtggcatac	atggaatggt	1140
ccccctccat	ttggcagcct	taagcggcct	ttcagattgc	tgcagaaaac	ttctttcttc	1200
aggatttgat	atagataccc	cagatgattt	tggcaggact	tgtctacatg	cagctgcagc	1260
tggagggaa	ttggagtgc	taaaccttct	gctgaatact	ggtgcagact	ttaataaaaa	1320
ggacaaat	gggagatctc	cactgcacta	cgctgctgcc	aactgcaatt	accagtgcct	1380
gtttgctctt	gtgggatcag	gagcaagtgt	gaatgacctt	gatgaaagag	gctgcacacc	1440
cctgcactat	gcagctacat	cagacacaga	tggcaagtgc	ctggaatact	tattaagaaa	1500
cgatgcaaat	ccagggatcc	gtgataagca	aggatacaac	gcagttcatt	attcagctgc	1560
ctatggtcac	cgtctatgtc	ttcagctgat	tgcaagtga	actcctctag	atgtttta	1620
ggaaacctca	ggaacagaca	tgtctagtg	ttcagataat	agagcaacaa	taagcccttt	1680
acacttggct	gcctatcatg	gtcaccatca	agcactggaa	gtgttggtac	agtctttgtt	1740
agatcttgat	gtcagaaata	gtagtggag	aacaccccta	gatcttgag	cttttaagg	1800
ccatgttgaa	tgtgttgatg	tactcattaa	tcaggagacc	tcaatcttag	taaaagatta	1860
cattttgaag	aggacacct	ttcatgcagc	agcaacaaat	ggtcattcag	aatgcttacg	1920
gctattaata	ggaaatgcag	aaccacagaa	tgcagtggat	attcaagatg	gaaatggaca	1980
gacgcctctg	atgctatctg	ttctcaacgg	gcacacagac	tgtgtttact	cattgctgaa	2040
caaaggagca	aatgtataga	ccaaagataa	gtggggaagg	acagcgttgc	atagaggggc	2100
agttacaggc	catgaagaat	gtgtagatgc	attacttcaa	catggtgcta	agtgttact	2160
tcgggatagc	aggggcccga	cgctataaca	cctgtctgct	gcctgtggac	acattggtgt	2220
tccttgagcc	cttttgagct	cagcagcatc	tatggatgca	aatccagcca	cagcagacaa	2280
tcattggat	acggcacttc	actgggcttg	ctacaatggt	cacgagacat	gtgtagaact	2340
gcttttagaa	caggaagt	tcagaaaaac	ggaaggaaat	gcttttagtc	cattgcattg	2400
tgccgtgata	aatgacaacg	aaggtgctgc	tgagatgta	attgatacat	taggtgccag	2460
cattgtgaac	gccacagatt	caaaaggaag	aactcctctc	catgcagccg	ccttcacaga	2520
ccatgtagag	tgttttacagc	tgctgtctcag	ccataatgct	caagtcaatt	ctgtggactc	2580
tacagggaaa	acacctcta	tgatggctgc	agaaaatgga	caaacaata	cagttgagat	2640
gctggttagc	agtgttagtg	cagaactgac	tttacaagat	aacagttaaa	atactgccct	2700
ccatttggtc	tgtagcaagg	gtcatgaaac	tagtgccttg	ttaatactgg	aaaagataac	2760
agatagaac	ctcatcaatg	caaccaacgc	agccttgcaa	acacctctgc	atgttgcctg	2820
cgaatagg	ctaacaatgg	tggttcagga	acttttgga	aaaggagcaa	gtgtgcttgc	2880
agtagatgaa	aatggctata	ccccagcttt	ggcctgtgct	ccaataagg	atgtggctga	2940
ttgctggct	ctcattttgg	ccaccatgat	gcctgtctca	tcaagtagtc	ctttatcatc	3000
cttaacattc	aatgccatta	accgttatac	caacacctca	aaaacagtca	gctttgaagc	3060
tttgcccatc	atgaggaatg	aacctagctc	ctattgcagt	ttcaataaca	ttggagggga	3120
acaggagtac	ttatacactg	acgtggatga	gctcaacgac	tccgattctg	agacctactg	3180
agaggctgag	gaggagggag	ttctcacagt	aaagcttcaa	actgtgcttt	ttcaggaaaa	3240
aggcactttg	atattcacgt	agaaattcaa	cctaagagga	aagatccac	agttagccaa	3300
tgtaaagaga	tctgatggca	ttaggaggaa	gagttttaaa	ggaattctct	tctgaattcc	3360
ctgagggaat	tttctagaat	ctcagaattg	aaagagacct	gaggttcac	cagtctctaa	3420
cctcttaaca	aatgcaggag	tcocctctac	aagggtgac	tttccacctt	gaacacttcc	3480
aagtgactct	acctcaccaa	gcagtccatt	cagttgttga	gcagctctaa	ctgttagaaa	3540
ggtcttccct	agatggagtt	gaagcctccc	tcccggtaac	ttctgtcttt	gggcctgggt	3600
ctgtcctcca	agagaaccct	gagaatgttg	gaaggatgaa	tctgcacat	tctgccatgt	3660
cttctctttt	acaggctgtt	tgacttctct	gctgaagtga	tttcagaaag	gactcatttg	3720
acacactatt	agattttacca	catctaata	aatccaagg	gtagctataa	agtgacaagc	3780
tgttttta	ttatcacata	caccagaact	tctatcctgc	atcacttata	tgtaaatgat	3840
gctgttacca	aaaacattaa	ggtagttctt	gcgaatgcca	ccccactaag	aaaactat	3900
cattactttt	gtaattccatc	tgtgagagtc	tgccccccag	cttaaccact	tcctttgatc	3960
tgaccccaat	gaagggaac	cccaaagtac	tgtctcaaat	ggtatttgaa	ctacgccagt	4020
attgttgga	taagtacatt	aattacttga	atgaatgaac	acagcaccgt	agaaatttcc	4080
tttatgggtta	caccttgat	gtctaaagca	ttcaggccct	gttctgtagt	gtttcttatc	4140
ctcacacaga	gtagaaaagc	ctgtttgctt	tatttaactt	atacataaaa	gatgacatct	4200
gaaatatctg	atgtgtatta	taataccagc	ttctgtctca	gaactacttt	gggtgaaatg	4260
gtggtaatag	caaatgacct	cctttaacaa	gacactcatc	tcaacaatg	ccatttagtt	4320
caggagatct	ctaagtgtag	ctgtaaat	tgggttaat	ttggcttata	ttggaccttt	4380
taaaagaaat	aaagtttttt	aatgcaat				4408

<210> 75
 <211> 5007
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: g4589571

<400> 75

ggggcgcccg	cgggccggag	ccggggcggg	ggccggggcc	taggcgcgcg	gacctgcgag	60
cggacccgag	agggcgcggc	ggcgcgagcg	aacggcgagag	cgggcccggag	gcgggccgagg	120
cgcccgcgcg	aggcacccgt	gcctcccctc	tgccaggaac	cttggggcct	tgtgtgtgac	180
caggacctgg	tggcccccg	gcggtggcag	agccctgtc	ccaagctgct	tcctgccggc	240
acctctgac	aagtgcctag	agggatgtgt	gtgccagccc	tcggtccagt	gcccgcctct	300
gagctgactc	ctgctggggc	ccgacagctt	gccgtgtttc	ctgtgcctgt	agctcccctg	360
ttggatagct	gcccggccgg	agaggtgacc	cgggcgcctt	gctaggggtg	aggccccctg	420
cctcgcccg	ggatcatgaa	aggcctcggt	gacagccgcc	cccgccacct	ctccgacagc	480
ctagaccac	cccacgagcc	cctgttttga	gggaccgacc	gcaacccta	cctgctgtcg	540
cccacggagg	ccttcgcccc	cgaggcccg	ttccccgggc	agaacacct	gccaggagat	600
ggcctctttc	ccctcaacaa	ccagctgccc	ccgcccagca	gcacctttcc	ccgcatccac	660
tacaactccc	acttcgaggt	gccagaggag	agcccccttc	ccagccatgc	ccaagccacc	720
aagatcaaac	ggctgcggc	caacctcctg	gaccagtttg	agaagcagct	gccccatccac	780
cgtgatggct	tcagcacctc	ccaatttccc	cgtggcgagg	ccaaggcccg	tggtagagag	840
cctggccgca	tcggccacct	ggtccactca	gtccagcggc	ttttcttcac	caaggcaccc	900
tcactggagg	gcacagcggg	caaggtcggt	ggcaatggca	gcaagaaggg	tggcatggag	960
gacggcaagg	gccggaggcg	caaaagcaag	aggctgggga	aggctgggga	gccccaaacg	1020
cgcagccgct	ccaacatctc	aggctggtgg	agctccgatg	acaacttgga	cggcgaggcc	1080
ggcgcttccc	gcagcagtg	cccagcctct	gggctgatga	tactaggccg	ccaggcagaa	1140
cgcagccagc	cacgctactt	catgcacgcc	tacaacacca	tcagtgggca	catgctcaaa	1200
accaccaaga	acaacactac	tgagctgact	gccccaccag	ccccgccgc	acccccagcc	1260
acctgcccc	gccttgggg	gggcactgac	accaactacg	tcaaacgggg	ctcctgtgtc	1320
actctgaccc	tcagccacgc	ccacgaggtc	tgccagaaga	cctcagccac	cttgataag	1380
agcttgctca	agtcacaaatc	ctgccaccag	ggtctagcct	accattacct	gcaggtgccc	1440
ggcgggcgcg	gcgagtggag	caccacgctg	ctgtccccac	gcgagacgga	tgccgcggcc	1500
gagggcccta	tcctgtgccc	gcgcattgag	agcggcagct	acatcaaggc	catgggcgac	1560
gaggacagcg	acgagtccgg	cggcagcccc	aagccctcac	ccaagaccgc	ggcgcgggcg	1620
cagagctatc	tgaggggcac	gcagcagtcg	ctgggagagc	agagcaaccc	ccgcaggagt	1680
ctggaccgcc	tggattcagt	ggacatgctg	ctgcccctca	agtgtccgag	ctgggaagag	1740
gactacaccc	ccgtcagcca	cagctccaac	gactccagct	gcatcagcca	gatttttgga	1800
caggcctccc	tgatccccca	gttgtttggc	catgagcagc	aggtacggga	ggcagagctg	1860
agtgaccagt	atgaggcgcg	ctgcgagtca	gcctgcagtg	aagcggagtc	cacagcggca	1920
gagacgcttg	acttgccact	gcccagctac	ttccgctccc	gcagccacag	ctacctgctg	1980
gccatccagg	caggctgctc	gcaggaggag	gacagtgtct	ccctgcagtc	cctctcccca	2040
ccgcccagta	ccggcagcct	cagcaatagt	cgacgccttc	cgagttcatc	atgectagt	2100
gcgtataaga	agaccccgcc	accggtccct	ccacgcacca	cttcaaagcc	gttcatctca	2160
gtcacagtcc	agagcagtac	tgagtctgcc	caggacacct	acctggacag	ccaggaccac	2220
aagagcgagg	tgactagcca	gtcgggctgt	agcaactcgt	cggacagcct	ggacagcagt	2280
acccgaccgc	ccagcgtgac	acgggggtga	gtcgccccag	ccctgaggc	cccagagcca	2340
cccccaaaac	atgcagctct	gaaaagtga	caagggacgc	tgaccagctc	tgagtccac	2400
cccgaggccg	cccccaaaag	gaaactgtca	tcgataggaa	tacaagagag	gactagaagg	2460
aacggttccc	acctctcgga	ggacaacgga	cccaagcgga	tcgatgtgat	ggcaccctcc	2520
tcagaaagca	gcgtccctc	tcacagtatg	tcctcccagc	gggacacaga	ctcgataacc	2580
caggatgcca	atgactcaag	ctgtaagtca	tcctgagagga	gcctcccgga	ctgtaccctc	2640
caccccaact	ccatcagcat	cgatgccggt	ccccggcagg	cccccaagat	tgcccagatc	2700
aagcgcaacc	tctcctatgg	agacaacagc	gacctgccc	tagaggcgct	ctcgtgccc	2760
ccacccgacc	cctggctcga	gacctcctcc	agctccccag	cagagccggc	acagccaggg	2820
gcctgcggcc	gagacggcta	ctggttccta	aagctactgc	aggcagaaac	agagcggtcg	2880
gaaggctggt	gctgccagat	ggacaaggag	accaaagaga	acaacctctc	tgaagaagtc	2940
ttaggaaaag	tcctcagtgc	tgtgggcagt	gccagctac	tgatgtcca	gaaattccag	3000
cagtccggg	gcctctgtga	gcaaaacttg	aacctgatg	ccaaccacg	ccccacagcc	3060
caggacctgg	ccagggttctg	ggacctgcta	cagctgtcca	tcgaggatat	cagcatgaag	3120
ttcgtatga	tctaccacct	caaggccaac	agctggcagc	tggtagagac	ccccgagaag	3180
aggaaggaag	agaagaaacc	acccccctccg	gtcccaaaga	agccagccaa	atccaagccg	3240
gcagttagcc	gcgacaaggc	ctcagacgcc	agcgacaagc	agcgccagga	ggcccgcgaag	3300
agactcctgg	cggccaagcg	ggcagcttct	gtgcggcaga	actcagccac	cgagagcgca	3360
gacagcatcg	agatttatgt	cccgaggcc	cagaccaggc	tctgagacca	tgcaggagga	3420
aagaacgat	tttaaatcat	taaaaacaca	aaaactaagt	gcgaacggaa	cagagttttc	3480
tcaacctttg	ctatggttat	tctgtctaga	gacctgagc	caactttcaa	attgacgcat	3540
acaagggtc	acaatttggc	ttttttgggt	cctcccagc	tttaggttat	gaagatttta	3600
ctacaaaaa	aaatcaacaa	aaatcacgaa	actagaaaac	tttttttttc	ctcttgcctg	3660
ccgtggtgga	ctagatagat	ggacgtcggc	aactcccggc	ccagcctcca	tactgcggtc	3720

```

ttttactcg ttctatctga tgagaactca cactagcttg tttacaagat gacgacagtc 3780
caagggcagc cttgggcacc tgccatgtcc ctcccttccc cagctatccc cgctctgacc 3840
ttgattttca ttcttatgtt tttctctttt cccttcagag ctcacacagt ggtcaccatt 3900
gtggcaagcg gctttctggg tctcagccct ctctgcgggt gagggcccag aggacagaga 3960
gatggacatg cgtccctccc ctccccccgc caagtgtctc cacacaacct cagcgccaca 4020
cacacacacg cagatggagg cgctcactg ggaggtgccc cgccagccct gggcagtgtc 4080
aggcaggact cactcaccgc tgagcagatg agagaagttt tagtcttggc ggggtggaaat 4140
gagacgaagc cacagttatc acactccaga ctccctgccc tttattttct ccagccctt 4200
cttccctcag caaaatctag gactcccag tggcttccag ggggcccgtc gtcctcagcc 4260
gcgcctgtgt ccggtgcccc agggggcgggc ggcggtgtct gtatgtatgt gtacatatgc 4320
acatagacct tagagtgtat agttaacaaa cgcccatctg ctcacccatg cccaccagc 4380
gccgccgccc ctggctctcg gggcacctgg caggaggcgg gtgtgtgaat agcatatatt 4440
tttacatgta ctatatctag gtgtgtgtac aagtgtgtgt aaaaatatat acctgtgtg 4500
taagcagccc tttttttttt tggctccac cccctcccc ccgccccgca ctcttaagg 4560
cccatctgcc cagcctctga gttttctgtt ctattttttt ttttaaccca attatcctt 4620
tctctctcct gccccgcct cccactccca ggggtgcacg agccctgagc tgcaatggc 4680
cgggectgca gggcggggta ggggagggga ggggctcagc cccgaagcca gctcagtacc 4740
tgaggggctg ctctatgctg tgtatgcgcc tctctggcat ccgagacatc ctcttggtg 4800
gcgcttctg cagggggggac ccccccccg tccccaggtg aaccaagggt ctgctccggg 4860
gccatttcc agcttggccg ccgtctgtga ccttgggcaa gtcacttgac ctctgtgtg 4920
ctcaacttcc tctctgtaa aacggggaca gtccctgccc ctccctacct cacaggcatg 4980
ttgtgagaat aaatgaggta acgtgta 5007

```

<210> 76

<211> 2551

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 334370.3

<400> 76

```

ggcgccaga cccggctttg ccgtccggct attagcctac tgtggctagt ccccccggg 60
gtccggcct tctcggtctg gggccgcgc caccgcgga ggacggggag gcgggccatg 120
gcgtcctcgt tggggagccg gaccctaagc aaggatgatg tgaactacaa aatgcatttc 180
cggatgatca acgagcagca agtggaggac atcaccattg acttcttcta ccggccgcat 240
accatcacc tgctcagctt caccatcgtc agcctcatgt acttcgcctt taccagggat 300
gactctgttc cagaagacaa catctggaga ggcacccctt ctgttatttt cttctttctt 360
atcatcagtg ttttagcttt ccccaatggt ccgttcactc gacctcatcc agccttatgg 420
cgaatggttt ttggactcag tgtgctctac ttctgttcc tggatttcc actcttctg 480
aatttcgagc aggttaaatt tctaattgat tggctagatc caaatcttcg atacgccaca 540
aggggaagcag atgtcatgga gtatgctgtg aactgccatg tgatcacctg ggagaggatt 600
atcagccact ttgatatttt tgcatttgga catttctggg gctgggcat gaaggccttg 660
ctgatccgta gttacggtct ctgctggaca atcagtatta cctgggagct gactgagctc 720
ttcttcatgc atctcctccc caattttgcc gagtctggt gggatcaagt cattctggac 780
atcctgttgt gcaatggcgg ttggcatttg ctgggcatgg tgcgttgccg gtttttagag 840
atgaggactt accactgggc aagcttcaag gacattcata ccaccaccg gaagatcaag 900
agagctgttc tgcagttcac tccgtctagc tggactatg ttgatggtt tgaccccaaa 960
tcttcttttc agagagtagc tggagtgtac cttttcatga tcatctggca gctgactgag 1020
ttgaatacct tcttcttgaa gcatatcttt gtgttccaag ccagtcaccc attaagttgg 1080
ggtagaattc tctttattgg ttgcatcaca gctcccacag tgagacagta ctacgcttac 1140
ctcaccgaca cacagtgcac gcgcgtagga acacaaatgct ggggtgtttg ggtcattggg 1200
ttcctggagg ccattgtttg cataaaattt ggacaagatc tcttctctaa gacccaaata 1260
ctctatgttg tgccttggtc tctttgctg gctttacca ctttctctg tctgtacggc 1320
atgatttggt atgcagaaca ctatggtcac cgagaaaaga cctactcgga gtgtgaagat 1380
ggcacctaca gtccagagat ctctggcat cagaggaaag ggacaaaagg ttctgaagac 1440
agccaccaca agcatgcagg caacaacgaa agccattctt ccaggagaag gaatcgcat 1500
tccaagtcaa aagtcaccaa tggcgttgga aagaaatgaa aaacctggt taatcaaaga 1560
tgttccagag tgcctagaac tgagagggaa atggaactca tttggaactc cccgtgagga 1620
ggtcgaggcg cacagggcaa gcaggaagag gcgagggcac ttgggggtca ttatttgaga 1680
tcgtaagtct tgtttccac agacctggcc gctcaggca gatcatcgcc tggggggcct 1740
ttgccaacgt ggggtctctt ctaacttcag cacttgacat ggggtcaccg gtggcagcgc 1800
ggtgtgttga agggaaacgg tagctattca ttcacagttg ccaagagcag ctccgcgcct 1860
gctggatcgt ggatgcagcg taaacatctt ccttcagacg aggcattaac cccatggtta 1920
atggactggg caccagtttt tattttattt ttatgaatct acctttccat tgattgattt 1980
aagttcaggc cacttttctg tcttttattt ggttactgtt gttatttggt ttttaagttg 2040

```

```

gatgcttttt aacagccttt agaagccgct gctgaaattg atactggggg aagggttccc 2100
cttccttcta gagcagaaaa gggagagagg tgtgtgattc ctgtttggta acctcagtct 2160
cctgtaagac ctccctaccac atggcgagta tacaccaatc aggagagggg agctgcctgc 2220
ataggagcct cgcttccgat tattcccttc ccaatattat tcatccagac ttagccacag 2280
tgcacaaaag caaacctgct agagaggcag tgaacaccac agcttctccc cagctaggtg 2340
ccttttacat cgggtttgtt ctccctccat ggtgtgttgc tgacattgtc actgagtccc 2400
atgtgaggtg ctggtgagta ttacctttca tctgtgccat gctctagaac cttgaccttg 2460
atagttcacc acctctgatg gatccctgtt ttaaataaaa acgattcact ttaaagccta 2520
aaaaaaaaa aaaagggcgg ccgctctaga g 2551

```

<210> 77
 <211> 708
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 980461.1

```

<400> 77
aaacattctc cagttctctt agtgtgcaca tgtttcagga ggtgtgaacc ccacatgtag 60
cttgtgtagg caagaagaca aatagtgtca ctgtctgggc aaggatttgt ttgaagagcc 120
atgattatgc ccatatggta agccaccagt gctccccatc cctgtaagac acttctttct 180
cattattttc tctctgatg gtgtgccagg atgctggcca agagaagcca agtggaaaga 240
aggctgttca gtgacaagga acctaaagact tagtgccaag gactgaaacc aagtaaactt 300
gtaattttcc atgatggaaa catctacact ttctcattag tggcctctac agcagttgcc 360
ccaaagaagc gtctcattgt ttttttacta catttatgtg aagcatacag gcaaactcag 420
aaagactgtg ataaggctcg ccagagatgc ctgcacaggt gctgggggaa aagcaggacc 480
atcctgaagg gagatggtgt ctgtggacaa agaactctgc agtggttctt atttgcatga 540
tttctgctgg tggaggctgt aaatgtgagc tcaaaactcc acataagtga gttttcattg 600
taatccagaa tgtttttaaa tcacctact tctattgaac ttgactatc atctgttaac 660
ctctactgta ttatttaaat aaacctgaat aggtaaatca caaaaaaa 708

```

<210> 78
 <211> 4748
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 422969.4

<220>
 <221> unsure
 <222> 4064, 4068, 4074
 <223> a, t, c, g, or other

```

<400> 78
cttcccgcg gtggcgcggt ctctggcggt ccttggtgcg gcgagccgag cgaggcagct 60
ctgagccgcg cggaaatctg gcatttttta aagtttgcg cccacaaaga ggaaatattc 120
caaaggctact caggatgtaa aaggggagat cttcacagat gcctccgtgg atggcatggc 180
aatccatcca tcaatgagaa gaccatgatt tcttttaatt ttctgtgtgt ttccacattc 240
cccagtgaga attcttccac ctttttttgt gccatgggaa aaacctgaag ggcaggcaga 300
gctgctcccg aacttgtgac ctctctgtag gttgcagcgg ctctttaga acatgactct 360
gggacatcac ttcttttgt tttctttcgg agctgaacca aagaatgtgc accctcttct 420
tctagtgtcg tgggtgtctgc ttatttttgt atttgtgctt tccatccatc ttctgtgatc 480
acaaggcatt ctttaaggttt tctagcacga cttgcggaac tccagactcg tggggggccc 540
acctatggct cggtaagcca gcagcccagg gcaactggac taccatgagg cactgcatta 600
attgctgcat acagctgtta cccgacggcg cacacaagca gcaggtcaac tgccaagggg 660
gccccatca cggtcaccag gcgtgcccc cgtgcaaagg agaaaacaaa attctgtttc 720
gtgtggacag taagcagatg aacttgcttg ctgttctcga agtgaggact gaagggaacg 780
aaaactgggg tgggtttttg cgcttcaaaa aggggaagcg atgtagcctc gtttttggac 840
tgataataat gaccttggtg acatccttct tggggccac caagagcttc 900
tgatctcatc acctttccat tacggaggct tccccagcaa cccagcttg atggacagcg 960
aaaaccaag tgacacaaag gagcatcacc accaatcctc tgtaataaat atttcataca 1020
tgaaggacta tccaagcatt aaattaatta tcaacagcat cacaactagg attgagttca 1080
cgaccagaca gctcccagac ttagaagacc ttaagaagca ggagttgcat atgttttcag 1140

```

tcattcccaa	caaattcctt	ccaaacagta	agagcccctg	ttggtacgag	gagttctcgg	1200
ggcagaacac	caccgacccc	tacctcacca	actcctacgt	gctctactcc	aagcgcttcc	1260
gctccacctt	cgacgcctctg	cgcaaggcct	tctggggcca	cctggcgcac	gcgacagggg	1320
agcacttccg	cctgcgctgc	ctgccgcact	tctacatcat	agggcagccc	aagtgcggga	1380
ccacagacct	ctatgaccgc	ctgcgggtgc	accctgaggt	caagttctcc	gccatcaagg	1440
agccacactg	gtggaccocgg	aagcgctttg	gaatcgctcg	cctaagagat	gggctgcgag	1500
accgctatcc	cgtggaagat	tatctggacc	tctttgacct	ggccgcacac	cagatccatc	1560
aaggactgca	ggccagctct	gcaaaggagc	agagcaagat	gaatacaatc	attatcgggg	1620
aggccagtgc	ctccacgatg	tgggataata	atgcctggac	gttcttctac	gacaacagca	1680
cggatggcga	gccaccgttt	ctgacgcagg	acttcatcca	cgcttttcag	ccaaatgcca	1740
gactgattgt	catgctcagg	gacctgtggg	agagggttga	ctcagactat	ctctactttg	1800
caagttcgaa	taaatcccg	gacgacttcc	atgagaaagt	gacagaagca	ctgcagctgt	1860
ttgaaaattg	catgcttgat	tattcactgc	gcgcctgcgt	ctacaacaac	accctcaaca	1920
acgccatgtg	tgtgagcttc	caggttgggc	tctatgctgt	gtaccttctg	gactggctca	1980
gcgtttttga	caagcaacag	tttctcattc	ttgccttgga	agatcatgca	tccaacgtca	2040
agtacaccat	gcacaaggtc	ttccagtttc	tgaacctagg	gcccttaagt	gagaagcagg	2100
aggctttgat	gaccaagagc	cccgcatcca	atgcacggcg	tcccgaggac	cggaacctgg	2160
ggcccatgtg	gcccatcaca	cagaagatgc	tgcgggattt	ctacaggccc	ttcaacgtca	2220
ggctggcgca	ggtcctcgcg	gatgaggcgt	ttgcgtggaa	gacgacgtga	gagctgaatt	2280
gttgctgcac	gtgctggggc	cgccaatgcc	gtcatcatca	ggattttaca	aatctctttg	2340
cggggaactg	tttcaactat	ggtatggaaa	acccaggagc	tctgccactc	taggcacaca	2400
tgcaattata	accattttgg	aatttccctc	gtgatgttgc	agagctcagc	aatggacccc	2460
tcacagagct	cctctatccg	aggccattgg	agaccccagt	ttctcaagaa	ttcagctctg	2520
ctctgagcgt	cctggagctt	ggggatgcag	ccagctggcc	tgcactgggt	gtggagagaa	2580
cacctaggga	aggcagcctg	gccctgcccc	cctccgcctt	ctggagagcc	tctgggttct	2640
gagtcagcaa	gccagaggtc	atgccacagg	cctggctgga	acttacactt	cacgttccct	2700
ttttttcccc	ctagagatgg	ggtctcgccc	gtttgcacag	actgtctgta	ttcaatggct	2760
atcttcacag	gtgtgatcat	accacattca	cttctgaaac	actcttgttg	cgatcgctaa	2820
cctcactggg	acagagaacc	gcagtctttc	gagaatggag	gctcttcatt	tttttttctt	2880
cctttactcc	aaactcagcc	ctccagtttc	ttcagatgta	aaccctgtta	acgtcactgt	2940
ttccaaaagg	aaaaaaataa	gtcagttttt	ggcagcacct	tcattcttct	gacctcctcc	3000
tattctgtcc	ttgtggactt	atgtttaaca	tagaaaaatg	atgcgtttta	aacaaaacca	3060
ctttctgcat	ttaaccagtc	ctggctctct	ctctgctgcc	tcttcatacg	ttttctcaag	3120
aacttcagtt	tataattgga	agagaaatth	ttgctgttaa	tgccagaatg	agcaacctca	3180
aggaattgaa	cactttctgg	aaaatctagg	taattcaagc	cctcatcagg	tttacaagat	3240
catcagagaa	acagaggatt	ttatttttta	gttctggcgg	gctacaggct	ccatttctct	3300
gccttcccat	tggaaatagt	ttatttccac	attctccact	gcgtgtgggc	aaagtctctc	3360
accagcaag	ggactataga	tactcgtgtc	ccaattccaa	aacacaatgc	acaagctgaa	3420
cttgggctga	acgtggcgctg	ttgagatttg	gaatgaggtt	tctaagagcc	gtgttcttca	3480
tggaaatttc	caggccactt	ggcagcttgg	ttaccgatg	gatgggctag	agatcttgtc	3540
gtttcttggg	agtcacaggg	aagattgaag	agaacgcttg	agcatccttg	gcaacagccc	3600
agggtggacc	tggatgaagc	tttgcactca	agtattgtca	agggaagctt	cctgtgaacc	3660
aaagtctca	ggccaaggtc	tgcgccacca	aagccagaaa	gtgcaagcac	ccgtctaccc	3720
agctctaact	tgtatgtgtg	agacagacca	ggcttcgggg	gtaggaggat	ctgcagttgt	3780
tcagccgtct	ttctgctggt	gttgtctttc	tgccatcaga	gaaggacac	acagcccggt	3840
cgaagggtgtg	cagagggctc	tgagcgccag	gatggccagg	gctgtttttg	ctactgaagg	3900
agcgtgtgtc	ctgaactccc	acttgcaggg	acagtcccca	ccttctctat	agccggcact	3960
gggagcagcc	gccagcaggg	aaatctggcc	tgagcacaag	gatgctttag	ggagagatca	4020
cttcagtgtg	tgtgtatatt	tatttgcagt	acagtgcgcg	cttntttntg	tgtntacggc	4080
cacgtgtggg	tgagtgcgtc	ttctgagttg	gttctgttca	gttgctaatg	aggctcctcc	4140
gctctggaca	caaccctttt	atagattaat	ttctctgcca	attaacttgt	cattttcagt	4200
acatatttta	ctattccaca	ccaaccataa	ttacaacaag	ggatttttct	tatgcactcc	4260
tatgcatgtg	aataacatgt	ggtgtaattc	tgcttcttac	agaagtatta	ctgaagggtt	4320
tatttccaat	attatttggg	ttattatgag	gatctttttt	atatatgcag	tccatccctt	4380
tctgtgccac	tcaatgccat	ccagacatgg	tttttccctc	caggggcctt	tctccagagg	4440
gcacttcggc	tgcctctgct	tccctctcatt	cgaggcccg	ctcttgctga	cagaataggt	4500
tccgttctgg	gcggtggttc	tcgagcctgc	cattcaaaaac	caaagcaaat	tggagcattt	4560
ctcacacaat	ggatttgaag	ttcctttttg	ttctcaaaaag	ttgtgaccgt	gttaaatgtt	4620
actcccttag	tctgttaagg	tatgttaagt	gaatcgagct	tacgctgtac	ttttattaat	4680
atttaacata	attaaagatg	gaccataaag	agtgcagcct	gtggagcgcg	tgctcttctt	4740
ctgcagcc						4748

<210> 79
 <211> 5262
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 244150.4

<400> 79

gccgctactg	ccggtgcagc	cgccaaaccg	gtgcctcggt	gacgaccgtg	tccttgccgt	60
cttcctcgag	ctccccgggg	cttgaccccc	ggggccctcg	gcaggcatcg	gtgaggagcc	120
tgcggaagcg	agaggggctg	ctattcttgc	ccttcaggac	cccatatcgc	gactccgagg	180
aggggaagcg	agaggggctg	tcgcgactcc	gcgcgtgtg	ttgccgggcg	gggcccgggg	240
gccggggctc	cttcagcccc	cgggatgcgc	gcgcgagccc	tcgcctccac	ttccttggtg	300
ctgctgtcac	gactggagcc	gcctctcgcc	gacagcgggg	agcgcgagtg	cgccagccat	360
ccccctcgtc	cagccgcggg	gccaaagcgc	tccgggaatg	tgagcggcgc	agcttgacag	420
ctctccgggc	catggacgca	tcataatgat	gtactgaggt	aactgtcgtg	atggaggaaa	480
ttgagaagga	aggtttggat	acctctctg	ggccacccaa	gaagaagaaa	aagtataaaa	540
tacatggaga	aaagacaaag	aaaccaggt	ctgcttacct	tctgtactat	tacgacatct	600
acctgaaagt	gcagcaggag	ctccccacc	tccttcagtc	tgagatcaat	aagaagatta	660
gtgagagttg	gaggcttctc	agcgtggcgg	agaggagtta	ctacttggag	aaagccaaac	720
tagagaagga	aggtttggat	cctaactcta	agctctctgc	actgactgct	gtggttccgg	780
acatcccagg	tttccgcaag	atcctccac	gctcagatta	tatcatcatc	cccaagagca	840
gcctgcagga	ggaccggagc	tgccctcagc	tagagctatg	tgtggctcag	aaccagatgt	900
ccccgaaagg	acctcctctt	gtgtccaaca	ctgccccgga	gacagtgcgc	agccatgcag	960
gcattggcag	gcagtgcccg	ggctgtggag	gccctggctg	aggaggtggg	agcccttacc	1020
cagtcagggtg	ctgtacagga	gattgccacc	tcagagatcc	tcagccagga	tgtgctccta	1080
gaggacgctt	ccctagaagt	aggggagagc	caccaacctt	accagacaag	cctggtaatt	1140
gaagagacct	tggtgaatgg	ctcaccagac	ctccccactg	gaagcctggc	tgtgccccac	1200
ccccaggttg	gggagagtgt	atcagtggta	acagtcatga	gggattccag	tgagagtagc	1260
tcctctgcac	cagccacaca	gttcacatgt	ttgcctctgc	ctgcctactc	ggttgtggag	1320
aaacccacct	ccatcaaact	gaccactaca	tatacccgcc	ggggccatgg	gacatgcacc	1380
agccaggggt	gctcctttac	atatgtcacc	aggcacaagc	cacctaatgt	ccctacctgt	1440
ggtaacttcc	taggagggaa	gtggatccca	aaggaaaagc	cagccaaagt	aaaagtggaa	1500
ttggctctcg	gcgtctcttc	caaaggctct	gtggtgaaaa	gaaatcagca	acctgtcacc	1560
actgagcaaa	atctctctaa	ggaaaatgcc	tcctgctctg	ctctggagaa	ttcggaagct	1620
gtaagccagc	tcctgaacgt	agctcctccc	agagaagtag	gtgaggagag	tgagtgggag	1680
gaagtgatca	tctccgatgc	ccatgttttg	gttaaggag	ctccccggga	ttgtggtaca	1740
gcagtcacta	agacgccagt	cgtaaaaagt	ggtgtgcagc	ctgaggtcac	tctggggaca	1800
actgacaatg	acagtcctgg	agcagacgta	ccaacacccat	ccgaggggac	aagtacctcc	1860
agtccactcc	ctgctcctaa	aaaacctaca	ggagctgacc	tgcttaccct	tgggtccaga	1920
gctccagagc	ttaaaggcag	agcacggggc	aagccctcat	tactggctgc	agcaagacct	1980
atgagagcaa	ttttgccagc	cccagttaac	gtggggcgag	gcagcagcat	gggactgccc	2040
agggccaggc	agggcctttc	cctgagtgat	aagactccct	ctgtgaggac	ttgtggtctg	2100
aagccaagca	cactgaagca	gctggggcag	cccattcaac	agccatctgg	ccctgggtgag	2160
gtgaagctac	caagtggccc	atccaacagg	acttctcagg	tgaaagtgtg	ggaggtcaag	2220
cccgatatgt	ttcctccata	taagtacagc	tgcatgtgca	cattggattt	gggcctggct	2280
acatgcaagc	ggccggggga	agtgcagaa	tcctcttctg	agctatgtct	acaccaacag	2340
gcacaaacct	cgaatttctc	ccagctgtgg	tgtaaacctt	ggccaaagac	cggaatgaga	2400
aaaccaccaa	ggctatcgag	gtgagctcac	cactcccaga	tgtactgaat	gccacagagc	2460
ccctgagcac	agcccagagg	gagatccagc	gccagtccac	actgcagctg	ctgcgcaaa	2520
tcctgcagat	tcctgagaat	gagtcagagc	tggttgaggt	cttcgccttg	attcatgaac	2580
tcaacagctc	tcgacttata	ttgtccaacg	tgagttagga	gacagtcacc	atcgagcaaa	2640
cctcttggtc	gaattattat	gagtctccgt	ccacgcagtg	ccttctctgt	agcagcccat	2700
tattcaaaag	gggacaaaac	tccttggtcg	ggccccagga	gtgctggctg	ctgacagcca	2760
gccgtctgca	gacagtgact	gcccagggtg	agatgtgtct	gaacccccat	tgtctggccc	2820
tgacacagct	catagacatc	tacacagggt	tccttaagt	ggggaacaag	ctgctggtaa	2880
gcttgagctt	gctttttgca	atcagaaaat	agatcaagct	cggagaggac	cccagagtgt	2940
ccatcaatgt	tggtctgaag	tcgggtgcagg	agcagacaga	gaagactctg	acctcggagg	3000
agctgagcca	gctgcaggag	ctgctgtgca	atggctattg	ggcctttgag	tgccctcactg	3060
tcagagacta	caatgacatg	atctgtggca	ctgtgtgtgt	ggcccccaaa	gtggaaatgg	3120
ctcagaggag	tgagtagaat	gtgctagcac	tgaagagcgt	ggagttcacc	tggcctgaat	3180
tcctgggctc	taatgaggta	aatgtggagg	acttttgggc	cacgatggag	acagaggtga	3240
ttgagcaggt	ggcatttctc	gccagcatcc	ctatcaccaa	atgtgatgcg	tctgttattg	3300
cccccttctt	cccaccactc	atgagaggag	ctgtgggtcg	caacacttag	aaagacaaaa	3360
acctggatgt	gcagccagta	cctggcagtg	gcagtgcctt	ggtgaggctg	ctccaggagg	3420
gcacctgcaa	gcttgatgag	attggctcct	acagtgaaga	gaagctgcag	caacctgcta	3480
ggcagtggtg	aatccccctt	ggggcagaag	actccaagga	ccagctctgc	ttctccttgt	3540
tggccctcta	cgaatctgta	cagaatggag	ctagagctat	acggcccca	cgtaacttca	3600
cagtggttaa	aatctacaag	gtgtgcccc	atcaggtggt	ctgcggctcc	aagtatcttg	3660
tgcgagggtg	gagtgccccg	gaccatgtgg	acctgcttgc	ctcttcccg	cactggccgc	3720

ctgtctatgt	ggtagatatg	gccacgtcag	tggccctgtg	tgctgacctc	tgctacccag	3780
agctgactaa	ccagatgtgg	gggaggaacc	agggctgttt	ctctagcccc	acagagccac	3840
ctgtgagtgt	gtcctgcccc	gagctccttg	accagcatta	tactgtggac	atgacagaaa	3900
ctgagcactc	tatccagcac	ccagtcacca	agactgccac	gcggcgcatc	gtccatgcag	3960
gcctacagcc	caatcctgg	gaccccagtg	ctgggcacca	ctccttggcc	ctgtgccttg	4020
aattggcacc	ttacgcaacc	atcctggcct	ccatcgtgga	cagcaaacca	aacgggtgtcc	4080
gccagcggcc	cattgccttc	gacaatgcca	ctcactatta	cctctacaac	cgcctcatgg	4140
acttctctac	cagccgcgaa	attgtcaatc	gtcagatcca	tgacattgta	cagagctgcc	4200
agcctgggtga	ggtggtcatt	cgtgacaccc	tctaccgcct	tggggttgct	cagatcaaga	4260
cagagacaga	ggaggagggt	gaggaagagg	aggtggccgc	agtggcagaa	taagccaggc	4320
tgttgtacag	ggactacacc	atctctcaag	ccatagtaag	gcccttgcc	gaggcagagc	4380
tatccagggg	acctgcagaa	gtgggtctct	gtggggaggg	cctctgactg	ctgggactga	4440
ccaaagagct	tccattccct	gagcatgggt	ggaccagggg	tcctcagttc	tcaacctctc	4500
aggggtcagg	agtggtacca	ggaaacctct	tctggccccg	agagagcact	tgggggacac	4560
ggtatgttta	atggaggggga	ggctgagggga	aaggctggta	gctgggtgggt	tccgtggggc	4620
ctgctgtgtg	ggtcagggtg	gaggtccttg	gtgggctaag	gcgtgagccc	cagcactagg	4680
tggaagagct	gctgaggtct	ctcccacccc	tgaggagccc	tggtttcagc	ccccctcagt	4740
tgatgaattg	cttagcctgt	tgcttttgac	taggggcctg	ggtggcctca	ttaactctag	4800
gggtcccttt	gggtctctga	ttctccctga	aggagggatg	catttctctc	ttgtctcttc	4860
tgtaccacaca	tttgggggaa	gctgaggagg	gaggaacagt	cagccacagc	tctcttcacg	4920
cactgtctctc	tccaccccaa	gctttgagga	agagcatccc	cttctctcct	tccctggcca	4980
ctgctgtcat	agccaatatc	ctctctgggc	ctgggacctc	ctccacagag	gggatgtggg	5040
ccctggctat	gacataacct	agcagcagta	ggaaaaactc	ccttctatga	aggggaagga	5100
gactggggcca	taaggaaaca	gcaggactgg	ctcaagtgcc	caaggtttgt	ttagggcctg	5160
ggaattggcc	atgtgttaat	ttattgagtg	gagtaggtgg	ctttttttcc	ctccctcttc	5220
ccccacaag	aataaagttt	attaaattat	ctggaaaaaa	aa		5262

<210> 80

<211> 3599

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 410257.11

<400> 80

gctgggatgg	gaggcagcat	gtctatctgg	agcaggtgct	gccacgctgc	gctgagggat	60
aggctggcgg	tcgaagccct	agccaggctc	tccaccacaa	gggactcttg	gctgggtccag	120
aaagatctgc	agagtgaatt	tgggatcaca	ggagaaccac	agcccagcag	tttcagtcct	180
tccagctggt	gtcaagggtgc	ttctcaggac	tatggccttg	ggggtgcaag	ccctagagga	240
gacccaggtc	tcggagagag	ggactggacc	agcaagtatg	ggcaaggagc	aggggaaggg	300
agcaccaggg	agtggggccag	caggtgtggc	atcgccagg	aggagatgga	ggccagcagc	360
agccaagagc	agagttaaag	gtctgcccc	ggggtgtca	cagcccagga	ccgggtagtt	420
ggaaagccag	cccagcttgg	cactcagcgg	agccaggagg	cagatgttca	ggactggggag	480
ttcagaaaga	gggattccca	gggcacttac	tccagccggg	atgcagaact	ccaggaccag	540
gaattcggaa	agagagattc	actgggtacc	tacagtagtc	gagatgtaag	ccttggggac	600
tgggaatttg	ggaagagaga	ttctctgggt	gcttatgcca	gccaagatgc	caacgagcag	660
ggccaggatt	tgggggaagag	ggaccaccat	gctaggtaca	gcagccagga	tgccgatgag	720
caggactggg	agtttcagaa	gagagatgtg	tcactcggca	cctatggcag	ccgggtctgc	780
gagccacagg	aacaggagtt	tgggaagagc	gcttggataa	gggactacag	cagtgggtggc	840
agctccagga	cccttgacgc	ccaggacaga	agctttggaa	cgagacccct	gagctctggg	900
ttcagccccc	aggaagccca	gcaacaggat	gaggaatttg	agaagaagat	tccaagtgtg	960
gaagacagcc	ttggagaggg	cagcagggat	gctggccggc	caggagagag	aggatccggg	1020
ggcttggtta	gtcctagcac	tgcccacgtg	ccggatgggg	cactcgggca	gagagaccag	1080
agcagctggc	aaaacagtga	tgctagccag	gaggtgggag	ggcatcagga	gagacagcag	1140
gcagggggctc	agggcccttg	cagtgtctgc	ctggaagatg	gggagatggg	aaagcagggc	1200
tgggtcgggtg	agttttgcct	cagtggttggc	ccccagcgag	aggcagcatt	tagcccaggg	1260
cagcaggact	ggagccggga	cttctgcac	gaggccagtg	agaggagcta	tcagtttggc	1320
atcattggca	acgacagagt	gagtgggtgct	ggcttttagcc	cttctagcaa	gatggaaggt	1380
ggtcactttg	tgctctcttg	gaagaccaca	gctggctcgg	tggactggac	tgaccagctg	1440
gggtctcagg	acttggaaag	gtccagctgt	gtgggttctg	ggggctcgag	cgaggccagg	1500
gagagtgcga	tgggacagat	gggtcgtgca	ggtggcctga	gcttgagaga	catgaacctg	1560
accggtctgt	tggaaagtgg	agggctctgaa	gagccggggg	gaatcggagt	tggggagaag	1620
gactggactt	ctgatgttaa	tgtgaagagc	aaagatttgg	ctgaggtcgg	ggagggagga	1680
ggccacagcc	aggccagaga	gagtggcgtg	gggcagactg	actggtcagg	tgtggaggcc	1740
ggagagtctc	ttaaatcaag	ggagcgtgga	ggttgacagg	cagactggac	acctgacctt	1800

```

gggctgagaa acatggcccc aggggcagtc tgcagtcctg gagagtccaa agagcttggg 1860
gtgggccaga tggactgggg taacaatctg ggcctgaggg atttggaggt gacctgtgac 1920
ccagactctg gaggttctca ggggctacgg ggatgtggag tggggcagat ggactggacc 1980
caggacttgg cgccccagaa tgtggagctc tttggggctc caagtgaagc caggagcat 2040
ggggtggcg gggtagcca gtgccagag ccggcctga ggcacaatgg cagcttgtct 2100
cctggcctgg agggcagaga ccccttggag gccagggagc tgggggttgg tgagacaagt 2160
gggcccagaga cccagggtga agattactcc tcgtcttctc tggagccaca ccctgcagac 2220
cctggaatgg agacaggaga agccctcagc ttccggagcaa gccctggcag gtgccccgcc 2280
cgccccccac cctccggctc ccagggcctg ctggaggaga tgctggcagc cagcagctcc 2340
aaggcggtgg ctccggagga gtcagcgccc tcgggccttg ggggcctgtt ggaggaggaa 2400
ggagccgggg cagggtctgc ccaagaggag gtgctggagc ctggcaggga ctctccacc 2460
tcctggaggc cgcagcctga tggtagggcc agccagacag aagacgtgga tggcacctgg 2520
ggctcttcag cagccaggtg gagcgatcag gggccagcac agacttctcg gcgacctcc 2580
caaggccctc ctgccagatc ccccagtcag gacttctcct tcattgagga caccgagatc 2640
ctcgacagtg ccatgtatcg gagcgtgccc aacttggggc gcaagcgtgg gcaccgggcc 2700
ccgtcattc ggcttgggg taccttgggc ctgtcggagg cagcagactc ggatgcacac 2760
ctgttccagg actctacaga gccacgggca tctcgggtgc catcttcaga tgaagaggt 2820
gtgaggaagc ctcagacgg ccggacacgg atgtcgttgg gcaccaaggg gctgaaagt 2880
aacctcttcc ctggcctgag cccctcagcc ctgaaggcca agctgcgccc ccggaatgc 2940
tcagctgagg agggagagct ggctgagagc aagtcagacc agaaggagtc cgcggtccag 3000
cgttcgaaat cctgcaaggt cccaggactg ggaaagcccc tcacgttacc tcccaagcca 3060
gagaaatcct cagggtcaga aggatcgtcg cccaactggc ttcaagccct gaaactgaag 3120
aagaagaagg tctgagaagt cactgaggtt ctccccacct ggcagttcca ggcagtgc 3180
attcctgtgg ggtccctggg tgaggagacg gctggagccc caccatgccc caggctgcag 3240
cctctgtccc ctccacctct gaggagcgtc tggggaggca catttatgca ctttgtatca 3300
ccctccgaac tccccccaca ccttcccttc cctggatttc atcactagtg gttgaaggt 3360
ttgtcccttc tctctcctc tctctctccc tctctgttc ctctccagc ctcccttggg 3420
ttttcttttg ataccaattt atagcatttt ttataaaagc ctttgatttt tataatgggt 3480
gggactgtat ccctgcctca cccaggtct ccgtctgccc cgccaggtac cccacagaga 3540
ccaatgacat tttgccactt gaaacaataa ataaagtttt ttgggaattg gtgctgtcc 3599

```

<210> 81
<211> 654
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 028253.3

```

<400> 81
aaaaaaagaa agagaccatc ccaggaagtt gtgggggttgg ggaggcctag ggttaggcaa 60
gaccttgagg caggggttga agccaggagg tggtcagcca gcaactgtccc tgcctgtccc 120
catcccacag agggcaagga gttggtgcac acctacaagg gctgcatcag gtcccaggac 180
tgctactccg gcgttatatc caccaccatg ggcccaagg accacatggt aaccagctcc 240
ttctgtgcc agagcgacgg ctgcaacagt gcctttttgt ctgttccctt gaccaatctt 300
actgagaatg gctgatgtg ccccgctgc actgcgagct tcagggacaa atgcatgggg 360
ccatgacccc actgtactgg aaaggaaaac cactgtgtct ccttatctgg acacgtgcag 420
gctggtatct tcaaaccag atttgctatg cggggtgtg ctacagagag tatgtgcttt 480
accaagcctg gtgctgaagt accacaggcc accaatgtcc tcttctcca tcatatagag 540
tgcaactcact cccctgaaa agctatctga acagaggaag ataatgtagt gtgaagtccc 600
catttgtcct cagcctgtaa ctccccgtgt gcctataaag aagttaatag agca 654

```

<210> 82
<211> 2954
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: g31670

```

<400> 82
tgggccgcag ccctccccgc cccgcgcgacc gcggtcacac actctcggag cctccccgtg 60
agcgggagcg cggcgcacgg cgatgcgccc aggcgggcgc tgaggcgggc cgcgcgcagc 120
agcagcagag gcgggcgcg cccccagccc agcccggcgc cgccgcgag cccggggccc 180
aaggtagcggc ggcgccccaa gttcccgcca tgagcagccg gctcgggggg ctccgcggcc 240

```

```

ccgggggactc ccgccccgcc gggcgcgacc gcagcgcccc gcggccccga cgcgcttaac 300
gttgtcgctt gccggtcccg ccaccgccgc ctccgccccg gctcgcgctc tcgcccgcac 360
cgctcgggcc gctgcagctc cgccggcagc atgtctcgaa ggaagatttc gtccgagtc 420
ttcagctccc tgggctccga ctacctggag accagccccg aggaggaggg ggagtgc 480
ctgtctaggg tctgtctggaa tggcagccgg agcccgcccc ggccgctgga gccagcccc 540
gccgcagctg ccgctgccgc cgccccggcc ccgaccccgg ctgcttctgc cgccgccgcc 600
gctgccactg ccggggccag gagggtgcag cgccggaggc ggttcaacct ggactcgctg 660
ggcgagagca tcagccgcct gacggcgccc tcgcctcaga cgatacagca gactctcaag 720
aggacactgc agtattatga acatcaagtt attggttaca gggatgcaga aaagaatttc 780
cacaatatct ctaacagatg ctctatgca gaccactcca acaagaaga aattgaagat 840
gtctcaggaa ttcttcagtg tactgtctaat atactcggtt tgaagtttga ggaaattcaa 900
aaaagatttg gtgaagagtt ctttaataata tgctttcatg agaagagag agtccttcga 960
gctgtagggt gcacttttgc ggactttttt aacggctttg atgctttgtt ggaacacatt 1020
agaaactctt ttggaaaaa ggcactctg gagtcaccat ctttctatg caaagagctc 1080
cctgaaggta ctctcatgct ccactacttc caccctcacc atattgtggg gtttgcaatg 1140
ctgggggatga ttaaggctgc aggaagaag atctatcggc tggatgtgga agtggaaacag 1200
gttgcaaatg agaagctatg ctctgatgtt tcaaaccag gcaattgtag ctgtcttact 1260
ttccttatca aagaatgtga aaatactaat atcatgaaga accttcacac gggaaccttc 1320
caagttcctg cggacctcag aattagcatc aacaccttct gtagagcctt ccctttccac 1380
ttgatgtttg atcccagcat gtcagtcctt cagttggggg aaggtctaag gaagcagctt 1440
cgatgtgaca ctcacaaagt gctcaagttt gaggactgct tcgagattgt atctccaaag 1500
gttaatgcca ccttgtaag ggtcctgctc cgactgtcta cccggtttgt gattagaacc 1560
aagcctgagg cttctggctc tgaaaaataa gacaaggatg tggaaagtaa aggacaatg 1620
atccatgttc cagaatcaaa ttccatttta tttttgggct ctccatgtgt ggacaagttg 1680
gatgaactca tgggcccagg gctacatctc tcagacatcc ctatccatga tgccaccoga 1740
gatgtcattt tggttggatg gcaggcaaag gcccaagatg ggttgaagaa aaggatggat 1800
aaattaaagg caactttaga aagaactcac caggccctgg aagaagagaa aaagaagaca 1860
gtggatcttc tatattctat tttccctggt gatgtagccc agcaattatg gcaagggcag 1920
caagtacagg ccagaaagt tggatgatgt accatgctct tttcagacat tgttggcttc 1980
acagccatat gtgccagtg tactcccatg caagtaatca gcatgctgaa tgaactgtac 2040
accagatttg accaccagtg tggatttttg gatatttata aggtggaaac aataggatg 2100
gcctactgtg ttgcagcagg gctccacaga gccatgctaa acccattgct 2160
ctgatggcct tgaagatgat ggaactttca gaagagggtg tgacacctga tggagaccg 2220
attcagatga ggataggat tcaactcaggc tccgtgctgg ctggagttgt tgggggtcga 2280
atgccacgtt attgcctgtt tggaaataat gtcacactgg caagcaaatt cgagtcggga 2340
agtacccttc ggcgcatcaa tgtcagccca accacttacc aattattaaa acgagaagaa 2400
agtttcacat tcattccgcg gtctcgtgaa gagcttcag acaactttcc aaaggaaatt 2460
cctgggatct gctatttcct ggaggttaagg actggtccaa agccaccaaa gccttctctt 2520
tcttcgtcga gaataaaaaa ggtttcctac aacatcgga ccatgttctt ccgggagaca 2580
agcctctgag acctgctaca gatcaagac tctccaaaa agcacaagcc cagaacatgg 2640
gtcaccaatg gggggtggaa agagatttgt tctctttcat tgctttgttg agaacaagca 2700
gcaaaatttc tgtattatgt caggcaataa tctactaaa aggtggagg gaccgctgtc 2760
aataaaaagc cggaggatga gggaaataag atgtgtccat tcatatgagt ggttttggct 2820
atatatatac acatatattt taattacaag tgtgggtccc ctttcagaac taaccaata 2880
atagattcca tgttttcttg tttatcacac atacaagtat ctttccctat atatttgtac 2940
cacttttgag agcc 2954

```

<210> 83
 <211> 2382
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 977552.1

```

<400> 83
cctactttct ctagaccaga aaattcccaa aattgtgcac attagaatca cgtgggtagc 60
ccacaaaatt ccagtgcca aattataacc tgcctttcct gtggcccagt ggtttccaac 120
gacattgggc tctcagctc agaagtgtcc tataatactg gctttacatt ggcctcaggc 180
tgaaccttgg acgtggcagg tattgcaaat attttccgcg gtgcgcgcgg attctggact 240
tgggcgccaa ctcgtagtcc acgctcccc gggtcagcag aggggcgctc acgctctcgc 300
caccacctc gctttctcac ccgcgccttc cggcctggg cggcctggg tttttagtct tccttgagc 360
gctctctggc ctccgcctcc gccagggagc ggaaggcgga gacagcgaga ctggccaggg 420
gggaggaaag aggacgcgtg tgggcaaggg ggacaacggg atgtccacgg gctcggtag 480
tgatccggag gagatggagc ttccggggct gcagcgggag taccgggtcc ccgcctcaa 540
gaggccgccc ctccgcggcg tagagcgagc ctacgcctcg ccagtgaca actcgtcggc 600

```

```

agaggaggag gaccccgacg gcgaggagga gcgctgcgct ctgggcacag ccggcagcgc 660
ggaaggctgc aagaggaaag ggcccccggt tggtgggggg cgccggcgca ggtggtagcg 720
cgggcggtgg tggcaagaag cccctcccgg ccaagggctc agccgcagag tgcaagcagt 780
cgcagcgga cggcgccaac gcccgtgagc gtgcccggat ggcgtgctg agcaaagcct 840
tctccaggct caagaccagc ctgccctggg tgcccccgga cactaagctc tccaagctgg 900
acacgctccg gctggcttcc agttacatcg ctacactgcg gcagctgttg caggaggacc 960
gctatgagaa cggctacgtg caccagtgga acctgacatg gccattcggt gtctcgggaa 1020
gaccggactc tgacacaaa gaagtttccg cagccaacag actatgtgga accaccgctt 1080
aaatcggaact ggaactcact tgatgggatt attcgttaaa tgcgagtgtt tggggggccac 1140
ggagagaagg gagagctcgt gagatgggaa gaagtttccg ctggattctc cttgaccctt 1200
ccccttccc tggaactgtg atcgtgacag gtggcgggtg tggctgtcac tgcacagcgc 1260
ccacggctac agctgcgcgg gatctggggc accacgtttt gcctctccaa aaagagcttc 1320
ctttcgtgac gagacgggga cgcagggtcca ccctcgggccc ctactctgt agactaactc 1380
tcggctgtcg ccccagcccg cgccagacag ccacggatc cgttctcagc ggagccagat 1440
tcacgcaca cgtgcccggc ggttccacac agccccggcc tttcgcgggtg acacaatggt 1500
tagggaacgg ttagaacggc ctctacatcc gctttaaaga cagaggtcta gacgtgagat 1560
ccgctcggg acagggtttt aagtgacaaa gaagggcgag tggcttctct gggccgggtt 1620
cgctactccg cacagcggc ttctaacggg cgggaggaag gccgctgctc gcagggctag 1680
gtggagacac acttccaga tcaccgcagg cgggttttac ccggagagct ctgggcccgtt 1740
cggcctccct gccgggtggc ttcttcaatc ccgtctcctt cccaagctcc cggctttttc 1800
taatcaggca ggcgtctgtc aacctctctc acttctgggc tgaagcctcc ccaagccccg 1860
ctgcgcaac ctgtgtgggg tcttcttcgg gcctccctct ccgccccgct cctgtctcta 1920
cctgcagcac ccccagctcc gactccagac tctctgcac aggtctcccc actccacgt 1980
ccgggcgccc caactccaac accacgtcct gccgcgcagg ttcttccccg cgcggaggag 2040
cgcgagggtt gggcggttta ccatagcaag tgatcctgcg atagggaacg cgccttggc 2100
ccgaggtcgc actaccacag gaaataacat atgtaaataa atttattttt ttatgaataa 2160
taaaacgcgc tgtaaaaacc gtgtgccctt ttggagggtg caggatgtag tctttgttgc 2220
cctttactaa gagggttttg ctgtagaagt taacttttaa gggctgatct cctctggtca 2280
ggcggtggg tcattgcggg aggaatggtg gcgatcactt ttggatcact ccatttccaa 2340
acgtcattct ttattaatct ctatgattct gctgcttctc cg 2382

```

<210> 84
 <211> 675
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 977552.2

<220>
 <221> unsure
 <222> 50
 <223> a, t, c, g, or other

```

<400> 84
ggggaaggga actaaacgac agaacctcaa agtcagatga gtttcaccan attatcctgc 60
gggcaaagtc caggaagaag cgtgaacgga tatggcaagt ctcggtattat caacctccag 120
taaaatgaaa atcttagttc agagagagga catgcaaatt ccagaaatgc tgataaaatc 180
ttagctactc caagtcagga atatctgggg ttccgctagg agagctgttt cggtttgaga 240
caatcgtttc tctctaatat ctacgttct ttttgattta cagacatggc cattcgtggt 300
ctcgggaaga cgggactctg acaccaaaga agtttccgca gccaacagac tatgtggaac 360
caccgcttaa atcggaactg aactcacttg atgggattat tcgttaaatg cagagtgtttg 420
ggggccacgg agagaaggga gagctcgtga gatgggaaga agtttccgct ggattctcct 480
tgacccttcc ctttccctg gaactgtgat cgtgacaggt ggcgggtgtg gctgtcactg 540
cacagcggcc acggtacag ctgcgcggga tctgggcgac cacgttttgc ctctccaaaa 600
agagcttctc ttcgtgacga gacgcggacg cagggtccacc ctcgggccct agctctgtag 660
actaactctc ggctg

```

<210> 85
 <211> 4893
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 347829.6

<400> 85.

```

cgcagccccc gcagggcagg gcccgccgct cggaccgagg caaccggcac ccgcggcgac 60
ccaggcgggc ccgaggcacc ccccgccggg catcagatcg tgcacgtccg cggggactcg 120
gagaccgacc tggaggcgct cttcaacgcc gtcatagaacc ccaagacggc caacgtgccc 180
cagaccgtgc ccatgaggct ccggaagctg cccgactcct tcttcaagcc gccggagccc 240
aaatcccact cccgacaggc cagtactgat gcaggcactg caggagccct gactccacag 300
catgttccgag ctcatctctc tccagcttct ctgcagttgg gagctgttct tcctgggaca 360
ctgaccccca ctggagtagt ctctggccca gcagctacac ccacagctca gcactctcga 420
ctgtcttctt ttgagatacc tgatgatgta cctctgccag caggttggga gatggcaag 480
acatcttctg gtcagagata cttcttaaat cacatcgatc agacaacaac atggcaggac 540
cccaggaagg ccatgctgtc ccagatgaac gtcacagccc ccaccagtc accagtgcag 600
cagaatatga tgaactcggc ttcaggctct cttcctgatg gatgggaaca agccatgact 660
caggatggag aaatttacta tataaacctt aagaacaaga ccacctcttg cctagacca 720
aggcttgacc ctggttttgc catgaaccag agaatacagc agagtgtctc agtgaacag 780
ccaccacccc tggctcccca gagccacag ggaggcgta tgggtggcag caactccaac 840
cagcagcaac agatgcgact gcagcaactg cagatggaga aggagaggct gcggctgaaa 900
cagcaagaac tgcttcggca ggagttagcc ctgcgtagcc agttaccaac actggagcag 960
gatgttggga agtgccttct cccgggatgt cctcaggatt ctacaggatt gagaacaatg 1020
acgaccaata gctcagatcc tttccttaac agtggcactc atcactctcg agatgagagt 1080
acagacagtg gactaagcat gagcagctac agtgtccctc gaacccacga tgacttctcg 1140
aacagtgtgg atgagatgga tacagggtgat actatcaacc aaagcaccct gccctcacag 1200
cagaaccggt tcccagacta ccttgaagcc atctctggga caaatgtgga ccttggaaac 1260
ctggaaggag atggaatgaa catagaagga gaggagctga tgccaagtct gcaggagct 1320
ttgagttctg acatccttaa tgacatggag tctgttttgg ctgccacca gctagataaa 1380
gaaagcttct ttacatgggt atagagccct caggcagact gaattctaaa tctgtgaagg 1440
atctaaggag acacatgcac cggaaatttc cataagccag ttgcagtttt caggctaata 1500
cagaaaaaga tgaacaaacg tccagcaaga tactttaatc ctctattttg ctcttctctg 1560
tccattgctg ctgttaatgt attgctgacc tctttcacag ttggctctaa agaatacaaa 1620
gaaaaaaact ttttatttct tttgctatta aaactactgt tcatcttggg ggctggggga 1680
agtgcgctg tttggatgat ggatgccatt ccttttgccc agttaaatgt tcaccaatca 1740
ttttaactaa atactcagac ttagaagtca gatgcttcat gtcacagcat ttagtttgtt 1800
caacagttgt tcttccagct tctttgttcc agtggaaaaa catgatttac tggctctgaca 1860
agccaaaaat gttatatctg atattaaata cttaatgctg atttgaagag atagctgaaa 1920
ccaaggctga agactgtttt actttcagta ttttcttttc ctctagtgc tatcattagt 1980
cacataatga ccttgattttt attttaggag ctataaggc atgagacaat ttccatataa 2040
atatattaat tattgccaca tactctaata tagattttgg tggataaatt tgtgggtgtg 2100
cattttgttc tgttttgttg ggttttttgt ttttttgtt tttggcaggg tgggtggggg 2160
ggttgggttg ttggttgggt ttgtcggaac ctaggcaaat gaccatatta gtgaatctgt 2220
taatagttgt agcttgggtt ggttattgta gttgttttgg taaaatcttc atttctgtt 2280
tttttttacc acctatttta aatctcgatt atctgctctc tcttttatat acatacacac 2340
acccaaacat aacattttata atagtgtggt agtggaaatgt atcctttttt aggtttccct 2400
gctttccagt taatttttaa aatggttagc ctttgtatgc atttgaataa catgactagt 2460
agttttatat tcaactgtag tttaaatctg gttggggcag tctgcagatg tttgaagtag 2520
ttttatgttc tagaagagc tattactgtg gatagtgcc aggggagtg tccacgccct 2580
ctgggcatac ggtagatatt atctgatgaa ttggaaagga gcaaaccaga aatggcttta 2640
ttttctccct tggactaatt tttaaagtct gatttgaatt cagttagtag gttcataatg 2700
tgcatgacag aaataagctt tatagtgggt taccttcatt tagctttgga agttttcttt 2760
gccttagttt tggaaagtaa tctagttttg tagttctcat ttgtaatgaa cacattaacg 2820
actagattaa aatattgcct tcaagattgt tcttacttac aagacttgct cctacttcta 2880
tgctgaaaat tgacctgga tagaatacta taaggttttg agttagctgg aaaagtgatc 2940
agattaataa atgtatatgg gtagttgaat ttagcaaaga aatagagata atcatgatta 3000
tacctttatt tttacaggaa gagatgatgt aactagagta tgtgtctaca ggagtaataa 3060
tggtttccaa agagtatttt ttaaaggaa aaaacgagca tgaattaaact cttcaatata 3120
agctatgaag taatagtttg ttgtgaatta aagtggcacc agctagcacc tctgtgtttt 3180
aagggtcttt caatgtttct agaataagcc ctatttttca aggttccata acaggcataa 3240
aatctcttct cctggcaaaa gctgctatga aaagcctcag cttgggaaga tagatttttt 3300
tcccccaat tacaaaatct aagtattttg gcccttcaat ttggaggagg gcaaaagtgt 3360
gaagtaagaa gttttatttt aagtaacttt agtgcataaa aaatgcaat cactgtgttg 3420
tatataatag ttcataggtt gatcactcat aataattgac tctaaggctt ttattaagaa 3480
aacagcagaa agattaaatc ttgaattaag tctgggggga aatggccact gcagatggag 3540
ttttagagta gtaaatgaa ttacactaga atgcaaaatt gggatataga attacatagc 3600
atgttgttgg gatttttttt aatgtgcaga agatcaaagc tacttggag gagtgcctat 3660
aatttgccag tagccacaga ttaagattat atcttatata tcagcagatt agcttttagct 3720
tagggggagg gtgggaaagt ttgggggggg ggttgtgaag atttgggggg accttgatag 3780
agaactttat aaacttcttt ctcttttaaa aagacttgct ttacaccgtg cctgccatta 3840
aaggcagctg ttctagagtt tcagtcacct aagttacccc atgaatatgg 3900
agatcttctt ttaccctcct actttaattt gccagttat acctcagtg tgtagcagta 3960

```

```

ctgtgatacc tgggcacagt gctttgatct tacgatgcc tctgtactga cctgaaggag 4020
acctaagagt cctttccctt tttgagtttg aatcatagcc ttgatgtggt ctcttgtttt 4080
atgtccttgt tcctaagtga aaagtgcctt actgcttctt ggttggtattg ggtagcattg 4140
ggataagatt ttaactgggt attccttgaat tgcttttaca ataaaccaat tttataatct 4200
ttaaatttat caacttttta catttgtggt attttcagtc agggcttctt agatctactt 4260
atggttgatg gagcacattg atttggagtt tcagatcttc caaagcacta tttgttgtaa 4320
taacttttct aaatgtagtg cctttaaagg aaaaatgaac acaggggaagt gactttgcta 4380
caaataatgt tgctgtgtta agtattcata ttaaatacat gccttctata tggaaacatgg 4440
cagaaagact gaaaaataac agtaattaat tgtgtaattc agaattcata ccaatcagtg 4500
ttgaaactca aacattgcaa aagtgggtgg caatatcagc tgcttaacac ttttctagcg 4560
ttggtacatc tgagaaatga gtgctcaggt ggattttatc ctgcgaagca tgttggtata 4620
agaattgtgg gtgtgcctat cataacaatt gttttctgta tcttgaaaaa gtattctcca 4680
cattttaaat gttttatata agagaattct ttaatgcaca cttgtcaa atataatat 4740
agtaccaatg ttaccttttt attttttgtt ttagatgtaa gagcatgctc atatgttagg 4800
tacttacata aattgttaca ttatttttct ttaatgtaata ccttttttgt tgtttatgtg 4860
gttcaaatat attctttcct taaactctta aaa 4893

```

<210> 86

<211> 4526

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 251776.11

<220>

<221> unsure

<222> 3982, 3984-4029, 4489-4490, 4492-4493, 4495-4497, 4501-4502, 4506-4508, 4510-4512

<223> a, t, c, g, or other

<400> 86

```

cgggggagtc tcggcgctgg ggcgcgttcgg agcccaagtc gcggccgcgc agcggagcca 60
gccctccccc tacccgagc agcccgctgg gtgcctgtcc cgagcggcga cacactagg 120
agtcgccggc tggccagcca gggcagcctg cgggtccctg gactcggcgc tgagtgtctg 180
gggacggatg gtggcggcgg gagcgcggag accacggcgg gcgcgctgga gccgggcgcc 240
gtgcagccgg agctgcgcgc ggggcatgcg gctgcgcgcc ggccccctcg cccccggcct 300
cggccccgcg gctcggcccc cagccccggc cgccggcccc cgcgagtgcc agcgaccgcg 360
cgcccgctga gggaggcgcc ccaccatgcc gcgggccccg gcgcgctgt acgcctgcct 420
cctggggctc tgcgcgctcc tgccccggct cgcaggcttc aacatatgca ctagtggaag 480
tgccacctca tgtgaagaat gtctgtctaat ccacccaaaa tgtgcctggt gctccaaaga 540
ggacttcgga agcccacggt ccatacctc tcgggtgtgat ctgagggcaa acctgtgcaa 600
aaatggctgt ggaggtgaga tagagagccc agccagcagc ttccatgtcc tgaggagcct 660
gccctcagc agcaagggtt cgggctctgc aggctgggac gtcattcaga tgacaccaca 720
ggagattgcc gtgaacctcc ggcccgttga caagaccacc ttccagctac aggttcgcca 780
ggtggaggac tatcctgttg acctgtacta cctgatggac ctctccctgt ccatgaagga 840
tgacttggac aatatccgga gccctggcac caaactcgcg gaggagatga ggaagctcac 900
cagcaacttc cgggtgggat ttgggtcttt tgttgataag gacatctctc ctttctcta 960
cacggcaccg aggtaccaga ccaatccgtg cattggttac aagttgtttc caaattgcgt 1020
ccccctcttt gggttccgcc atctgtctgc tctcacagac agagtggaag gcttcaatga 1080
ggaagtccgg aaacagaggg tgtcccggaa ccgagatgcc cctgaggggg gctttgatgc 1140
agtactccag gcagccgtct gcaaggagaa gattggctgg cgaaaggatg cactgcattt 1200
gctggtgttc acaacagatg atgtgcccc catcgcatg gatggaaaat tgggaggcct 1260
ggtgcagcca cagcatggcc agtgccacct tgccctgtct tggagagaaa ctgcatccaa 1320
ccagatggac tatccatccc ttgccttgct tatgctgtac aagaatttta cagccctgat 1440
cctcatcttt gcagtgcaca aaaaccatta tatgctgtac aatattattc aactgattat 1500
acctggaaca acggtggaga ttttagatgg agactccaaa atattattc agcctgagga 1560
taatgcatac aatagtatcc ggtctaaagt ggagttgtca gtctgggatc agcctgagga 1620
tcttaatctc ttctttactg ctacctgcca agatggggta tctatcctg gtcagaggaa 1680
gtgtgagggg ctgaagattg gggacacggc atcttttgaa gtatcattgg aggccgaag 1740
ctgtcccagc agacacacgg agcatgtgtt tgccctcgcg ccggtgggat tccgggacag 1800
cctggagggt ggggtcacct acaactgcac gtgcggctgc agcgtggggc tggaaaccaa 1860
cagcgccagg tgcaacggga gcgggacct tgtctgcggc ctgtgtgagt gcagccccgg 1920
ctacctgggg accaggtgcg agtgccagga tggggagaa cagagcgtgt accagaacct 1980
gtgcggggag agccactgtg agccagggcg cagcgggcgt ggggagatga gctgcaacca 2040
gtgctcctgc ttcgagagcg agtttggcaa gatctatggg cctttctgtg agtgcgacaa

```

```

cttctcctgt gccaggaaca agggagtcct ctgctcaggc catggcgagt gtcactgcgg 2100
ggaatgcaag tgccatgcag gttacatcgg ggacaactgt aactgctcga cagacatcag 2160
cacatgccgg ggcagagatg gccagatctg cagcgagcgt gggcactgtc tctgtgggca 2220
gtgccaatgc acggagccgg gggcctttgg ggagatgtgt gagaagtgcc ccacctgccc 2280
ggatgcatgc agcaccaaga gagattgcgt cgagtgcctg ctgctccact ctgggaaacc 2340
tgacaaccag acctgccaca gcctatgcag ggatgaggtg atcacatggg tggacacat 2400
cgtgaaagat gaccaggagg ctgtgctatg tttctacaaa accgccaagg actgcgtcat 2460
gatgttcacc tatgtggagc tccccagtg ggagtccaac ctgaccgtcc tcaggggagcc 2520
agagtgtgga aacaccccca acgccatgac catcctcctg gctgtgggtc gtagcatcct 2580
cctgtttggg ccttgactcc tggctatctg gaagtgcctt gtcaccatcc acgaccggag 2640
ggagtgttga aagtttcaga gcgagcgatc caggggccgc tatgaaatgg cttcaaatcc 2700
attatacaga aagcctatct ccacgcacac tgtggacttc acctcaaca agttcaacaa 2760
atcctacaat ggcactgtgg actgatgttt ccttctccga ggggctggag cggggatctg 2820
atgaaaaggc cagactgaaa cgccttgcac ggtgtcctcg cttgatcaca gctccctagg 2880
taggcaccac agagaagacc ttctagttag cctgggccag gagccacag tgcctgtaca 2940
ggaaggtgcc tggccatgtc acctggctgc tagggccagag ccatgccagg ctgcgtccct 3000
ccgagcttgg gataaaacaa ggggaccttg gcgctctcag ctttccctgc cacatccagc 3060
ttgttgctcc aatgaaatac tgagatgctg ggctgtctct ccttccagg aatgctgggc 3120
ccccagcctg gccagacaag aagactgtca ggaagggtcg gactctgtaa aaccagcata 3180
cagtttgct ttttccacat tgatcatttt tatatgaaat aaaaagatcc tgcatttatg 3240
gtgtagttct gactcctgag acttttctgc gtgatggcta tgccttgcac acagggtgtg 3300
gtgatggggc tgttgagatg cctgttgaag gtacatcgtt tgcaaatgtc agtttccctc 3360
cctgtccgtg tttgtttagt acttttataa tgaaaagaaa caagattgtt tgggattgga 3420
agtaaagatt aaaacaaaaa gaatttgtgt ttgtctgata ctctctgtgt gtttctttct 3480
ttctgagcgg acttaaaatg gtgccccag tggggattga agcgccctg tacttccctc 3540
gggatgggac acaggctggt ctgatactcc agactgcagc ttgtcaagta agcatgaggt 3600
gctcggggca gtgaggctg tgcaaggggg aacactgagc agatagatac ctttggcccc 3660
ttccagcttt tactgacaga gagttccagg ctagacacca taaaaaccac cccttggctc 3720
ccctcccttg ttctgagggg ctgaggctgg aaatagattg tacagacaag caagggttga 3780
gtggtgggtc ccacacgaag tcatctctta aacatcatta gcaatagcag ttcccttcca 3840
aggcctccc tcactccga aacacttacg tcccatgcag gccaatgca aaaaaacaca 3900
tttgagcttt tttcccgca ggccatgaag tcccttaag tcccatatc taagatggtt 3960
gactgacct ctccccttat gnannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 4020
nnnnnnnnnt gttgttagg aggttactga atgacaaact gttcctaaga ccccatctca 4080
tctggccag agggccagcc tctcattcc tgcttgcctc tagaaaatct ttcactgate 4140
atthttgtc actggaataa cttcaagggt attatgcttt cattccaaat ggatctgttc 4200
tcagctctgg acccaattcc cttacttca ttttggcaaa cactaagtca aatagtga 4260
tgacctgcac tacatagaac ctattacctg gggcaaatat gaacagattg agtttctctc 4320
atcttgtgta aatatgatga aacagagacc tggttaactg gtgacactgt taaacccttt 4380
ttgggataaa gccaaatgta aatgaaaaca ttaaacagat aaattgtggc gttgagactt 4440
ttctgaattg agaaaaataa atgtaatttt ggaagaaaaa aaaaaaann annannngga 4500
nncagnnnan nnaaaaaaaa aaaggg 4526

```

<210> 87
<211> 2204
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 343674.9

```

<400> 87
ggccgcgggc gctgcaggcg gcgggcaagg acggccgggc acagcgacaca gctgccccgc 60
tcgttgcccc gggatatcca gcgcggaccc acgcgatacg ctgacgcccc gacgcccgatc 120
cgcccgagcc aagtaagggg gacggcccca gacggagaag ggagagagtg ggagtthccc 180
agcccgacaga actttcgaag ttgagaagag aacccctgga acgtgcgctc agcactggga 240
ttttctggac tcaacgatga ctctgaataa tgtcaccatg cgccagggca ctgtgggcat 300
gcagccacag cagcagcgct ggagcatccc agctgatggc aggcattctga tgggtccagaa 360
agagccccac tctctagacc accgcaaccg ccattctgct acccctgagg accactgccg 420
ccgaagctgg tcctctgact ccacagactc agtcatctcc tctgagtcag ggaacaccta 480
ctaccgagtg gtgctcatag gggagcaggg ggtgggcaag tccactctgg ccaacatctt 540
tgacaggtg catgacagca tggacagcga ctgcgaggtg ctgggagaag atacatatga 600
acgaacctg atggttgatg gggaaagtgc aacgattata ctctggata tgtgggaaaa 660
taagggggaa aatgaatggc tccatgacca ctgcatgcag gtgggggacg catacctgat 720
tgtctactca atcacagac gagcgagctt cgagaaggca tctgagctgc gaatccagct 780
ccgcaggggc cggcagacag aggacattcc cataattttg gttggcaaca aaagtgactt 840

```



```

agtgcggtgc cgagaagtgt ctgtatcaga agggagagcc tgtgcagtgg tgtttgactg 900
caagttcatc gagacctctg cagctgtcca gcacaacgtg aaggagctgt ttgagggcat 960
tgtgcgacag gtgcgccttc ggccgggacag caaggagaag aatgaacggc ggctggccta 1020
ccagaaaagg aaggagagca tgcccaggaa agccaggcgc ttctggggca agatcggtgg 1080
caaaaacaac aagaatatgg ccttcaagct caagtccaaa tcttgccatg acctctctgt 1140
actctaggaa cccagggtca cccagatgtc cctttgatgg ccgttggtga aggccattgg 1200
gaccaataat ctatattaga ttgaatactt aagtttagat tggtttcccc cattgtagca 1260
gggagctagc gtattagcct tgtgggcaac atgatgcatg ggaaatgaaa gatttttgta 1320
aaaagtcagt atttatttcc aggaaaagcc tgaccttggc tatttgaaac cccaagactc 1380
tttagaggat gtgtttgggt ttacatgtg tttcttctat tttggatagt agggaagtaa 1440
agcttacaaa gaatgcctag aacaagaact ttcatcatt aaaaattttt cccagtgttc 1500
tgatatgtga ctttgaggcc aatgagtcac aaacaaatat aagaaagctg tcaatgagtt 1560
tcttcaaagg agggaaaact ttctacgaat ctaagatcca tggagctaga attgtagaac 1620
taggctcatc agaattcgta ctattattgc tccatcaaac tgtgaaaaga aatgatgtgg 1680
accttgctgg aaacaaagcc ttagcaaaac aatgttcttc aatgcccacc gagacatata 1740
gaattgggaa ctgatacatg tgtcccttat aggtcaaaa attatatctt acaatttctt 1800
atttaggggg aaattatttg aatcagattc tatttagtca aaccaccttt tatgttttat 1860
tatttttgaa ttcatggagc catcataaaa atatttttaa aatcagaatt attgataccc 1920
tgtattgcaa aatgtcaatt tttaatgtat aatcagaagt ctgaattttc ataaaacata 1980
tagcataaaa acctccagta cttgggttga cccttgatg tcacagctct gctctattta 2040
ttattatttt gcaaaaataac cattttaaca tttgataaag catattttat aacatatttc 2100
ttaataagaa aaatatccat tttattacca ttttctatct ttttcaaaat atgcaagttt 2160
ttacctatat gtcttataat aaaagaaata aaatatttga aaaa 2204

```

<210> 88
 <211> 4015
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 479136.1

<220>
 <221> unsure
 <222> 200-218, 2456-2486, 4006, 4010
 <223> a, t, c, g, or other

```

<400> 88
agggccctgc ggggtagct ggttggtcc tgggtgctct cacccecgge cgccctcgta 60
cccaccagag cctgggctct gtcaaggagc ggggcatggc atcgaaacagc atcttcgact 120
ccttcccgac ctactgcggc accttcaacc ggcgacccaag caccagccgc cgcttcacac 180
ctccctcccc ggcttcccn nnnnnnnnnn nnnnnnnnaa gatgggagag aacagcgagg 240
cgctgagcgc gcaggcgcc gtggggccgc gagggcgccg ccggcccgag gtgcgctcga 300
tgggtggacgt gctggcgagc cagcgaggcg agctcgtgcg caccgacagc cccaacttcc 360
tctgctccgt gctgcccctg cactggcgct gcaacaagac gctgcccgtc gccttcaagg 420
tgggtggcatt gggggacgtg ccggatggta cgggtggtgac tgtgatggca ggcaatgacg 480
agaactactc cgctgagctg cgcaatgcct cggccgtcat gaagaaccag gtggccaggc 540
tcaacgacct tcgcttcgtg ggccgcagtg ggcgaggaa gagtttcacc ctgaccatca 600
ctgtgttcac caaccccacc caagtggcga cctaccaccg agccatcaag gtgaccgtgg 660
acggaccccc ggagcccaga cggcaccggc agaagctgga ggaccagacc aagccgttcc 720
ctgaccgctt tggggacctg gaacggctgc gcatgcgggt gacaccgagc acaccagacc 780
cccaggctc actcagcacc acaagccact tcagcagcca gcccagacc ccaatccaag 840
gcacctcgga actgaaccca ttctccgacc cccgccagtt tgaccgctcc ttccccacgc 900
tgccaacctt caggagagc cgttccccag accccaggat gcattatccc ggggccatgt 960
cagctgcctt cccctacagc gccacgcctt cgggcacgag catcagcagc ctcagcgtgg 1020
cgggcatgcc ggccaccagc cgttccacc atacctacct cccgccaccc taccgggggg 1080
ccccgcagaa ccagagcggg cccttccagg ccaaccgctc cccctaccac ctctactacg 1140
ggacatcctc tggctcctac cagttctcca tgggtggccgg cagcagcagt gggggcgacc 1200
gctcacctac ccgcatgctg gcctcttgca ccagcagcgc tgccctctgtc gccgccggca 1260
acctcatgaa cccagcgacc ggcggccaga gtgatggcgt ggaggccgag gccagccaca 1320
gcaactcacc cagggccctg agcacgccag gccgcatgga tgaggccgtg tggcggccct 1380
actgaccgcc ctggtggact cctcccgtg gagggcgggg ccctaacaac cttcaagacc 1440
agtgatgggc cggctccgag gctccggggc ggaatgggac ctgcgctcca ggtgtgtctc 1500
ggtccagggt ttgtccagc tgggtgggag ctctggctgc atctgtgcag ccacatcctt 1560
gtacagaggg ataggttacc acccccacc cggcccgga tactgcccc ggccagatc 1620
ctggcgtct catccatac ttctgtgggg aatcagcctc ctgccacccc cccggaagga 1680

```



```

cctcaactgtc tccagctatg cccagtgtgt catggggaccc atgtctcctg ggacagaggc 1740
catctctcttt ccagagagag gcagcattgg cccacaggat aagcctcagg ccctgggaaa 1800
cctccccagcc cctgcacctt cgttggagcc cctgcacccc ctgggtccag cccctctctg 1860
atttacacag atttgagtca gaactgggaa agtgtccccc accccacca cctcagagcg 1920
gggttccccct cattgtacag atggggcagg acccagcacg ctgctggcag agatgggttg 1980
agaacacatc caagccagtc cccccagccc agcttccccc ccgttccctaa ctgttggtct 2040
tccccagccc gcacgggtcc caggeccccc agaatatgag tctatggcat caggttctta 2100
aaccaggaa agcacctaca gaccggctcc tccatgcact ttaccagctc aacgcacca 2160
ctctctgttc tcttggcagg gcgggggagg ggggatagga ggtcccccctt cccctagggtg 2220
gtctcataat tccatttgtg gagagaacag gagggccaga tagatagggtc ctagcagaag 2280
gcattgaggt gagggatcat tttgggtcag acatcaatgt cctgtcccc cctgggtcca 2340
gccaagctgt gccccatccc ccaagcctcc tgggaggatc cagccaaatc ttgcgactcc 2400
tggcacacac ctgtctgtaa cctgttttgt gctctgaaag caaatagtcc tgagcnnnnn 2460
nnnnnnnnnn nnnnnnnnnn nnnnnnaaaa acaaaacagt ttttaaaact gattttagaa 2520
aaagaagctt aatctaactg tttcaaacac aaggtctctt acaggatatg ttccgtgatt 2580
atgatagctc tgtgattata agcaacatcc ccgccccctc tccccccgc gacccccag 2640
ctgcctcctg aggggtgtggg gttatttagg tctcaatact ttctcaagggt gctacactcc 2700
ccatcaggca gcaccccacc agcctgcacc acaggctccc ctgggaggac gagggaacag 2760
ctgatgagac gctgggcac tctcctctgt ggctctagga catctgtcca ggaggctggg 2820
cggagggtggg caggatgtga gaggtgggga gtactggctg tgcgtggcag gacagaagca 2880
ctgtaaagggt ctctccagcc gcagctcagc tgcactgcgt tccgagggtga agtcttgccc 2940
ctgaattttt caaaatggga aagtgggcgc ttgcccagg gccaggctgc atggattctc 3000
acatcagagt tctctggccc tagaaaaggc tagaaaaggc gtaagggaac tcataaaggc 3060
tagcagcatg cggatatttta actttctgcc tcggcctctg tggatgcaga aatctgcctc 3120
acaaaatgct ctctatttgt tgtctctgtg agagcactgt gcaggttagg cagtccctct 3180
cggccagaac caticacacg agacacactg gcaggttagg cagtccctct ggtgatccca 3240
ttcattccc tccctgtcgg gtttctcttg gcctgtcttc actggaaaaa cagtctccat 3300
ctctcaaaa tagttgtga ctccctgcac ccaaggggcc tctccatgcc ttcttaggaa 3360
gcagctatga atccattgtc cttgtagttt ctccctcctt gttctctggt tatagctggg 3420
cccaggctcag cgtgggaggc acctttgggt tcccagtgcc cagcactttg tagtctcatc 3480
ccagattact aacccttctt gatcctggag aggcagggat agtaataaaa ttgctctctc 3540
taccatccc cccatccctt gacaaaaagt gacggcagcc gtactgagtc tctaaggccc 3600
aaagtgggta cagacagcct gggctggtaa aagtaggtcc ttatttaca ggctgcgtta 3660
aagtgtact aggcaaacac actgatgtag gaagcacgag gaaaggaaga cgttttgata 3720
tagtgttact gtgagcctgt cagttagtgg taccatctt ttgtgacata ttgtcatgct 3780
gaggtgtgac acctgtgca ctcatctgat gtaaaacat cccagagctg gcgagaggat 3840
ggagctgggt ggaaactgct ttgcactatc gtttgccttg tgtttgttt taacgcacaa 3900
cttgcttgta cagtaaaactg tcttctgtac tatttaactg taaaatggaa ttttgactga 3960
ttgtttacaa taatataact ctgagatgtg tggaaaaaaa aaaaanagan aagag 4015

```

<210> 89
 <211> 2570
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1078147.1

```

<400> 89
ggcgccgcat gtgtctccgc gggggctgca gccctcgagc gccgcgcgc gccgcccac 60
ccggcgccgc cccgcgcctc ccgcccgcgc cctcgagcgc cgtcccgccc tcgcgccccg 120
gccgcccctt gttgacgcgc gccaggccgt gcggctcgat gcgcgcgcgc agccccgggc 180
ccgggctcgg aggtctcccg ggcgagagga ggccggccgc cggccgggac cccgcgcgag 240
tcggccccgg ccaggggctg cgtaggcccg cccggccagg ccagccgcgc tggacagaga 300
cagggcaggg cattgttcat gcactgacgc acctcagcag ccccggcag acctcaggga 360
acggaaactc tgctccagc atcgccggca ctgccccca gaatggtgag aataaaccac 420
cacaggccat tgtgaaaccc caaatcctga cgcagtgtat cgaagggttt gtgatccagg 480
agggggcgga gcccttcccg gtgggacgct cgtccctgct ggtggggaat ctcaagaaga 540
agtatgcaca ggggttcccg cctgagaaac ttccacagca ggatcacacc accaccactg 600
actcggagat ggaggagccc tatctgcaag aatccaaaga ggagggtgct cccctcaaac 660
tcaagtgtga gctctgtggc cgggtggact ttgcctataa gttcaagcgt tccaagcgt 720
tctgttccat ggcttgtgca aagaggtaca acgtgggatg caccaaacgg gtgggacttt 780
tccactcaga ccggagcaag ctgcagaagg caggagctgc gaccacaac cgcgctcggg 840
ccagcaaaagc cagtctgcca ccacttacca aggataccaa gaagcagcca acaggcactg 900
tgcccccttc ggttactgct gctttgcagc taacacacag ccaggaagac tccagcgtt 960
gtcagataa ctcaagctat gaggaaccct tgtcaccat ctcagccagc tcactactt 1020

```

cccgccggcg	acaaggccag	cgggacctgg	agctccccga	catgcatatg	cgggacctgg	1080
tgggcatggg	acaccacttc	ctgccaagtg	agcccaccaa	gtggaatgta	gaagacgtct	1140
acgaattcat	ccgctctctg	ccaggctgcc	aggagatagc	agaggaattc	cgtgcccagg	1200
aaatcgacgg	gcaagccctg	ctgctgctca	aggaggacca	cctgatgagc	gccatgaaca	1260
tcaagctggg	gcccgccttg	aagatctacg	cccgcatcag	catgctcaag	gactcttagg	1320
gctgggtggc	gccaggattc	tggcccaggg	cgctctctcc	cgactgagca	gagccagaca	1380
gacattcctg	aggggcccag	aaatggggcc	ggttggaggg	caggggctct	ccttaggggg	1440
atagctggtg	aggaggtctg	ggcacctcct	ccatggctct	caggggcctt	tcattttctg	1500
gggaggggca	gagaggtagg	tggcacagaa	gatggggcct	tatgcttgta	aatattgata	1560
gcactgggct	ctcccaaagt	cccaatactc	tagccccgct	ctcttcccc	ctttctgtcc	1620
cccattttcc	agggggtata	tggtcagggc	tccccaacct	gagttggggt	acttcaaggg	1680
cagccagcag	gcttggtatg	aggcctagaa	agcccttgcc	ttccttcctc	ccacttcttt	1740
ctccaggcct	ggttaactct	tcggttgta	gcttctcccc	cttcagcctg	tttctgcagc	1800
agccagggtt	ctccccctta	caaccctctg	caagggtggg	agagagaagc	tgggcccagc	1860
cgggccgtgc	ctgctggcac	agacgcctta	acgctgtgtg	tatgactgtg	tgactgtgtg	1920
ggagcctgga	ctgacagata	ggccaagggc	tactctctgg	catctccagg	tgttttgtag	1980
caaacagcca	cttagtgctt	tgctcctggc	tcactcagc	ctcaggatgg	ggaatagcca	2040
agaatggcag	gagggcagca	gaggcaagg	cagaaagaga	cggcgcttca	gagtttctct	2100
tcagagcacc	cctccccgca	ctgtgaagtt	cccctgaccg	ccctcctggg	tcacaaagag	2160
cattaagaaa	gctgcggtgg	tctgagcaac	atagcccaga	gggctgagcc	tcctggcctg	2220
cctgcccggc	caccctggga	gtcccagtgg	tgaggctcag	agaacttcta	aggggaaaga	2280
acagctggag	tttctgttga	tgtgaagaag	gcagctcttg	gcctcccact	cccacacttc	2340
tttgcttata	taacttctta	gcagcaattt	gagctacctg	aggaggaggc	agggcagaaa	2400
gggcaagggc	ctgcctctga	cctgcctgtg	cctttgcagg	aaggaggtag	gcacctttct	2460
gagcttattc	tattccccac	ccacaccccc	aggcagggtt	ggaaatgaag	gactttttta	2520
acctttgttt	tgttttttta	aaataaatct	gtaaaatctg	aaaaaaaaaa		2570

<210> 90

<211> 5848

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 474275.1

<400> 90

tcctctgcca	ctggctctgc	gccccagccc	ggctctgctg	cagcggcagg	gaggaagagc	60
cgccgcagcg	cgactcggga	gccccggggc	acagcctggc	ctccggagcc	acccacaggc	120
ctccccgggc	ggcgcccacg	ctcctaccgc	ccggacgcgc	ggatcctccg	ccggcacccg	180
agccacctgc	tcccggccca	gaggcgacga	cacgatgcgc	tgccgcgtgg	cgctctcggc	240
gctgctgcta	ctgttgtaaa	cgccgcgcgt	gctgcgcgtc	tcgccgtcgc	cgctcgcgtc	300
gccgtcgccc	tcccagaatg	caaccagac	tactacggac	tcatttaaca	aaacagcacc	360
gactccagca	actcttgta	ccatcatggc	tacagataca	gcccagcaga	gcacagtccc	420
cacttccaag	gccaaagaaa	tcttgccctc	ggtcaaggcg	accacccttg	gtgtatccag	480
tgactcaccg	gggactacaa	ccctggctca	gcaagtctca	ggcccagtea	acactaccgt	540
ggctagagga	ggcagctcag	gcaaccctac	taccaccatc	gagagcccca	agagcacaaa	600
aagtgcagag	accactacag	ttgcaacctc	cacagccaca	gctaaacctc	acaccacaag	660
cagccagaat	ggagcagaag	atacaacaaa	ctctgggggg	aaaagcagcc	acagtgtgac	720
cacagacctc	acatccacta	aggcagaaca	tctgacgacc	cctcacccca	caagtccact	780
tagcccccca	caaccacttt	cgacgcattc	tgtggccacc	ccaacaagct	cgggacatga	840
ccatcttatg	aaaatttcaa	gcagttcaag	cactgtggct	atccctgggt	acaccttcac	900
aagccccggg	atgaccacca	ccctaccgtc	atcggttata	tcgcaaagaa	ctcaacagac	960
ctccagtcag	atgccagcca	gctctacggc	cccttctctc	caggagacag	tgccagccac	1020
gagcccgcca	acggcattga	gaacacctac	cctgccagag	accatgagct	ccagcccac	1080
agcagcatca	actaccacc	gataccccaa	aacaccttct	cccactgtgg	ctcatgagag	1140
taactgggca	aagtgtgagg	atcttgagac	acagacacag	agtgagaagc	agctcgtcct	1200
gaacctcaca	ggaaacaccc	tctgtgcagg	ggcgcttcg	gatgagaaat	tgatctcact	1260
gatatgccga	gcagtcaaag	ccaccttcaa	ccgggcccaa	gataagtgcg	gcatacggct	1320
ggcatctggt	ccagggaagtc	agaccgtggt	cgtaaaagaa	atcactatct	acactaagct	1380
cctgcacaag	gatgtgtacg	agcggctgaa	ggcaaaatgg	gatgaactaa	aggaggcagg	1440
ggtcagtgac	gtgaagctag	ggaccaggg	ggccaccggg	gaggccgagg	accgcttcag	1500
catgcccctc	atcatcacca	tctgtctgcat	ggcgctcatt	ctgctcctcg	tggcgccct	1560
ctatggctgc	tgccaccagc	gcctctccca	gaggaaggac	cagcagcggc	taacagagga	1620
gctgcagaca	gtggagaatg	gttaccatga	caacccaaca	ctggaagtga	tggagacctc	1680
ttctgagatg	atgaagcaga	aggtggctcag	cctcaacggg	gagctggggg	acagctggat	1740
cgctccctctg	gacaacctga	ccaaggacga	cctggatgag	gaggaagaca	cacacctcta	1800

gtccggtctg	ccggtggcct	ccagcagcac	cacagagctc	cagaccaacc	accccaagtg	1860
ccgtttggat	ggggaaggga	aagactgggg	agggagagtg	aactccgagg	ggtgtccct	1920
cccaatcccc	ccagggcctt	aatttttccc	ttttcaacct	gaacaaatca	cattctgtcc	1980
agattctctt	tgtaaaataa	ccactagtgt	cctgagctca	gtgctgctgg	atgatgaggg	2040
agatcaagaa	aaagccacgt	aagggacttt	atagatgaac	tagtggaatc	ccttcattct	2100
gcagtgagat	tgccgagacc	tgaagagggt	aagtgacttg	ccaaggtca	gagccacttg	2160
gtgacagagc	caggatgaga	acaaagattc	catttgcacc	atgccacact	gctgtgttca	2220
catgtgcctt	ccgtccagag	cagtcccggg	caggggtgaa	actccagcag	gtggctgggc	2280
ttgaaaggag	ggcagggcta	catectggct	cgggtgggatc	tgacgacctg	aaagtccagc	2340
tcccaagttt	tecttctcct	accccagcct	cgtgtacca	tcttcccacc	ctctatgttc	2400
ttaccocctc	ctacactcag	tgtttgttcc	cacttactct	gtcctggggc	ctctgggatt	2460
agcacaggtt	attcataaac	ttgaaccctt	tgttctggat	tcggattttc	tcacatttgc	2520
ttcgtgagat	gggggcttaa	cccacacagg	tctcgtgctg	tgaaccaggt	ctgcttaggg	2580
gacctgcgtg	gagctgagga	gagaagggga	cactcgagtc	caggctggta	tctcagggca	2640
gctgatgagg	ggtcagcagg	aacactggcc	cattgcccct	ggcactcctt	gcagaggcca	2700
cccacgatct	tctttgggct	tccatttcca	ccagggacta	aaatctgctg	tagctagtga	2760
gagcagcgtg	ttccttttgt	tgttcactgc	tcagctgatg	ggagtgtatc	cctgagacc	2820
agtatgaaag	agcagtggct	gcaggagagg	ccttcccggg	gcccccatc	agcgtgtgt	2880
cttcagagac	aatccattaa	agcagccagg	aaggacaggc	tttcccctgt	atatcatagg	2940
aaactcaggg	acatttcaag	ttgctgagag	ttttgttata	gttgttttct	aacccagccc	3000
tccactgcca	aaggccaaaa	gctcagacag	ttggcagacg	tccagttagc	tcactcact	3060
cactctgatt	ctcctgtgcc	acaggaaaaa	agggcctgga	aagcgcagtg	catgctgggt	3120
gcatgaaggg	cagcctgggg	gacagactgt	tgtgggaacg	tcccactgtc	ctggcctgga	3180
gctaggcctt	gctgttcttc	ttctctgtga	gcctagtggg	gctgctgcgg	ttctcttgca	3240
gtttctggtg	gcatctcagg	ggaaacacaaa	gctatgtcta	ttccccaata	taggactttt	3300
atgggctcgg	cagttagctg	ccatgtagaa	ggctoctaag	cagtgggcat	ggtgaggttt	3360
catctgattg	agaaggggga	atcctgtgtg	gaatgttgaa	cttctgccat	ggtctccatc	3420
gttctgggcg	taaatccct	gggatcaagt	aggaaaatgg	gcagaactgc	ttaggggaa	3480
gaaattgcca	tttttcgggt	gaaacgccac	acctccaggg	tcttaagagt	caggctccgg	3540
ctgtagtagc	tctgtgaaa	taggctatcc	actcgggatg	gcttactttt	taaaagggtg	3600
gggggaaggg	ctggggaaga	tctgtctcgc	accatctgcc	taattccttc	ctcacagtct	3660
gtagccatct	gatatcctag	gggaaaagga	aggccagggg	ttcacatagg	gccccagcga	3720
gtttccagg	agttagagg	atgctgaggt	aacaagttcc	aaaaacatct	gccccgatgc	3780
tctagtgttt	ggaggtgggc	aggatggaga	acagtgcctg	tttgggggaa	aacaggaaat	3840
cttgttaggc	ttgagtgaag	tgtttgcttc	cttcttgccc	agcgtctggg	tctctccacc	3900
cagttaggtt	tctgttgtgg	tccctgggga	gaggccagac	tggattattc	ctcctttgct	3960
gatcctgggt	cacacttcac	cagccagggc	ttttgacgga	gacagcaaat	aggcctctgc	4020
aaatcaatca	aaggctgcaa	ccctatggcc	tcttggagac	agatgatgac	tggcaaggac	4080
tagagagcag	agtgctcctg	ccaggtcctg	ctcgactctc	ctgactctcc	atcgctctgt	4140
ccaaggagaa	ccgggagagg	ctctgggctg	attcagagg	tactgcttta	tattcgtcca	4200
aactgtgtta	gtctaggcct	aggacagctt	cagaatctga	cacctgcct	tgctcttgcc	4260
accaggacac	ctatgtcaac	aggccaaaaca	gccatgcate	tataaaggto	atcatcttct	4320
ggcaacttta	ctgggttcta	aatgctctct	gataattcag	agagcattgg	gtctgggaag	4380
aggttaagg	aacactagaa	gctcagctat	acttaaacag	gttgtagcaa	agacagtta	4440
tcatcaactc	tttcagtgg	aaactgtggt	ttccccaagc	tgacacagg	gccagaaacc	4500
acaagtatga	tgactaggaa	gcctactgtc	atgagagtgg	ggagacaggc	agcaaagctt	4560
atgaaggagg	tacagaatat	tctttgcgtt	gtaagacaga	atacgggttt	aatctagtct	4620
aggcaccaga	ttttttttcc	cgcttgataa	ggaaagctag	cagaaagttt	atttaaacca	4680
cttcttgagc	tttatctttt	ttgacaatat	actggagaaa	ctttgaagaa	caagttcaaa	4740
ctgatacata	tacacatatt	tttttgataa	tgtaaataca	gtgaccatgt	taacctaccc	4800
tgactgctt	taagtgaaca	tactttgaaa	aagcattatg	ttagctgagt	gatggccaag	4860
ttttttctct	ggacaggaat	gtaaatgtct	tactggaaat	gacaagtttt	tgcttgattt	4920
ttttttttta	acaaaaaatg	aaatataaca	agacaaaact	atgataaagt	atgtgtcttg	4980
tagatcaggt	gttttgtttt	gtttttttta	ttttaaaatg	caaccctgcc	ccctcccag	5040
caaagtca	gtctcatttc	agtaaagggt	ggagtcaata	tgctctggtt	ggcaggcaac	5100
cctgtagtca	tgagaaaagg	tatttcaaga	tctagtccaa	tctttttcta	gagaaaaaga	5160
taatctgaag	ctcacaaaaga	tgaagtgaat	tcctcaaaat	cacatggttc	aggacagaaa	5220
caagattaaa	acctggatcc	acagactgtg	cgcctcagaa	ggaataatcg	gtaaattaag	5280
aattgtact	cgaagggtgc	agaatgacac	aaaggacaga	attcctttcc	cagttgttac	5340
cctagcaagg	ctagggaggg	catgaacaca	aacataagaa	ctggtcttct	acactttctc	5400
tgaattcattt	aggtttaaga	tgtaagtga	caattctttc	tttctgcaca	gaaacaaagt	5460
tttgatgag	cttttatata	tggaacttac	tccaacagga	ctgagggacc	aaggaaacat	5520
gatgggggag	gcagagaggg	caagagtaaa	actgtagcat	agcttttgtc	acggtcacta	5580
gctgatccct	caggtctgct	gcaaacacag	catggaggac	acagatgact	ctttggtgtt	5640
ggtctttttt	tctgcagtga	atgttcaaca	gtttgccctg	gaactggggg	atcatatatg	5700
tcttagttga	caggggtctg	aagtacactg	gaatttactg	agaaacttgt	ttgtaaaaag	5760
tatagttaat	aattattgca	ttttcttaca	aaaatatatt	ttggaaaatt	gtatactgtc	5820

aattaaagtg tttttgtgta aactgggtt

5848

<210> 91
<211> 2700
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1320658

<220>
<221> unsure
<222> 2495, 2497, 2498, 2510-2525, 2587, 2610, 2687
<223> a, t, c, g, or other

<400> 91
ccgcgcgcgc atggagcgcg ccgcgcgcgc gcgcgcgggc ccgcttcgcg tgctgctgct 60
cggcgcgcctt gcgctgctgg cggcgcggagt ggacgcggat gtccctcctgg aggctgctg 120
tcgggacgga caccggatgg ccactcatca gaaggactgc tcgctgccat atgctacgga 180
atccaaagaa tgcaggatgg tgcaggagca gtgctgccac agccagctgg aggagctgca 240
ctgtgccacg ggcatcagcc tggccaacga gcaggaccgc tgtgccacgc cccacgggta 300
caacgccagc ctggaggcca cttttgtgaa gagggtgctgc cattgctgtc tgctggggag 360
ggcggcccag gccaggggcc agagctgcga gtacagcctc atggttggct accagtgtgg 420
acagggtcttc cgggcatgct gtgtcaagag ccaggagacc ggagatttgg atgtcggggg 480
cctccaagaa acggataaga tcattgaggt tgaggaggaa caagaggacc catatctgaa 540
tgaccgctgc cgaggaggcg gcccttgcaa gcagcagtg gcagacacgg gtgacgaggt 600
ggtctgctcc tgettcgtgg gctaccagct gctgtctgat ggtgtctcct gtgaagatgt 660
caatgaatgc atcacgggca gccacagctg ccggcttgga gaatcctgca tcaacacagt 720
gggctctttc cgctgccagc gggacagcag ctgcccggact ggctatgagc tcacagagga 780
caatagctgc aaagatatgg acgagtgtga gagtggattt cataactgcc tccccgattt 840
tatctgtcag aatactctgg gatccttccg ctgccgacc aagctacagt gcaagagtgg 900
ctttatacaa gatgctctag gcaactgtat tgatatcaat gagtgtttga gtatcagtgc 960
cccgctccct attgggcata catgcatcaa cacagagggc tcctacacgt gccagaagaa 1020
cgtgcccaac tgtggccgtg gctaccatct caacgaggag ggaacgcgct gtgttgatgt 1080
ggacgagtg gcgccacctg ctgagccctg ttgggaaggga catcgctgcg tgaactctcc 1140
cggcagtttc cgctgcgaat gcaagacggg ttactatttt gacggcatca gcaggatgtg 1200
tgtcgatgtc aacgagtgcc agcgctaccc cgggcgcctg tgtggccaca agtgcgagaa 1260
cacgctgggc tcctacctct gcagctgttc cgtgggcttc cggctctctg tggatggcag 1320
gtcatgtgaa gacatcgacg agtgccagag cagcccctgt agccaggagt gtgccaaact 1380
ctacggctcc taccagtgtt actgccggcg aggtaccag ctcagcgatg tggatggagt 1440
cacctgtgaa gacatcgacg agtgccacct gccacccggg ggccacatct gctcctaccg 1500
ctgcatcaac atccctggaa gcttccagtg cagctgcccc tcgtctggct acaggctggc 1560
ccccaattgg cgcaactgcc aagacattga tgagtgtgtg actggcatcc acaactgctc 1620
catcaacgag acctgcttca acatccaggg cgcgttcgcg tgcttggcct tcgagtggcc 1680
tgagaactac cgccgctccg cagccacgct ccagcaggag aagacagaca cggctccgtg 1740
catcaagtc tgccgcccga acgatgtcac atgcgtgttc gaccccgctg acaccatctc 1800
ccacacgctc atctcgctgc ctaccttccg cgagttcacc cgcctgaag agatcatctt 1860
cctccggggc atcacgccac cgcctcctgc cagccaggct aacatcatct tcgacatcac 1920
ggaagggaac ctgcccggact cttttgacat catcaagcgt tacatggacg gcatgaccgt 1980
gggtgtcgct cgccagggtg ggcccacgtt gggcccattt catgccgtcc tgaagctgga 2040
gatgaactat gtggtcgggg gcggtggttc ccaccgaaat gttgtcaacg tccgcatctt 2100
cgtctctgag tactggttct gagggctggg ctgccgcaca gccgcagggt cacctccagg 2160
ccaaatcatt gctgccagtg actgtggtct gtacttgttt ataccctcag acttttttaa 2220
tgttaggtat ttgtagcata aggccaaact gtatcaagct gagccagatg aataagtcca 2280
tctgatgtat tttcgggtgt taaaaaatga gccagttgc tcaactgttt ggttgaaaac 2340
cttgctcatt ttttaatgcg aaggctaagt gtcaccccct ttctctgcct ctggctgggc 2400
cttgctaagg gcccaaggaa agaaagacat tttttagggg gcagccagtc caaatgccaa 2460
aagaagacca gttcttgccc tgattgtatg aaatntnnc ttttggcacn nnnnnnnnnn 2520
nnnnnggcca atcagatttt ctatgttcta aggacatggc tgctgtagaa tagcacagac 2580
gtggatnata aattatcccc agaagcagcn tgacagaatg cctcggggag cacttggag 2640
ggaaattgca gttctgttgg ggaatggctg ggatttctcg gcactntgca tcatccatct 2700

<210> 92
<211> 4481
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 242114.16

<400> 92

cgaccactgt	gagcccgcg	cgtgacgcgt	gggaggaagc	gcggtgctg	tcgcccagcg	60
ccgccccgtc	gtcgtctgcc	ttcgtttcac	ggcgccgagc	cgcggtccga	gcagaaactgg	120
ggctcccttg	catcttccag	ttacaaattc	agtgccttct	gcagtttccc	cagagctcct	180
caagaataac	ggaaggagaa	atatgcagaa	tacctagcat	ctagcaaaat	aatggcagct	240
gcttaccttg	accccaactt	gaatcacaca	ccaaattcga	gtactaagac	tcacctgggt	300
actggtatgg	aacgttctcc	tgggtgcaatg	gagcgagtat	taaaggctct	tcattatatt	360
gaaagcaata	gtgagccaac	cacctgggccc	agtattatca	ggcatggaga	tgctactgat	420
gtcaggggca	tcattcagaa	gatagtggac	agtcacaaaag	taaagcatgt	ggcctgctat	480
ggattccgcc	tcagtcacct	gcggtcagag	gaggttcact	ggcttcacgt	ggatatgggc	540
gtctccagtg	tgagggagaa	gtatgagctt	gctcaccac	cagaggagtg	gaaatatgaa	600
ttgagaattc	gttatttgcc	aaaaggattt	ctaaaccagt	ttactgaaga	taagccaact	660
ttgaatttct	tctatcaaca	ggtgaagagc	gattatatgt	tagagatagc	tgatcaagtg	720
gaccaggaaa	ttgctttgaa	gttgggttgt	ctagaaatac	ggcgatcata	ctgggagatg	780
cggggcaatg	cactagaaaa	gaagtctaac	tatgaagtat	tagaaaaaga	tggtggttta	840
aagcgatttt	ttcctaagag	tttactggat	tctgtcaagg	ccaaaacact	aagaaaactg	900
atccaacaaa	catttagaca	atttgccaac	cttaatatag	aagaaagtat	tctgaaattc	960
tttgagatcc	tgtcttcgaa	ctacagattt	gataaggaa	gcttcaagtg	tgctcttgg	1020
tcaagctgga	ttatttcagt	ggaactggca	atcgggccag	aagaaggaa	cagttaccta	1080
acggacaagg	gctgcaatcc	cacacatctt	gctgacttca	ctcaagtgca	aaccattcag	1140
tattcaaaaa	gtgaagacaa	ggacagaaaa	ggaatgctac	aactaaaaat	agcaggtgca	1200
ccgagcctc	tgacagtgc	ggcaccatcc	ctaaccattg	cggagaatat	ggctgacctc	1260
attagtcggg	actgcggct	ggtgaatgga	acctgcag	catttatcat	cagacctcag	1320
aaagaagggtg	aacgggcttt	gccatcaata	ccaaagtgg	ccaacagcga	aaagcaaggc	1380
atgcggacac	acgccgtctc	tgtgtcagaa	acagatgatt	atgctgagat	tatagatgaa	1440
gaagatactt	acaccatgcc	ctcaaaaagc	tatggaatag	atgaagccag	ggattatgag	1500
attcaaaagg	aaagaataga	acttggacga	tgtattggag	aaggccaatt	tgagatgta	1560
catcaaggca	tttatatgag	tccagagaat	ccagctttgg	cggttgcaat	taaaacatgt	1620
aaaaactgta	cttcggacag	cgtgagagag	aaatttcttc	aagaagcctt	aacaatgct	1680
cagtttgacc	atcctcatat	tgtgaagctg	attggagtca	tcacagagaa	tcctgtctgg	1740
ataatcatgg	agctgtgcac	acttggagag	ctgaggtcat	ttttgcaagt	aaggaaatca	1800
agtttggatc	tagctctttt	gatcctgtat	gcttatcagc	ttagtacagc	tcttgcatat	1860
ctagagagca	aaagatttgt	acacagggac	attgctgctc	ggaatgttct	ggtgtcctca	1920
aatgatttgt	taaaattagg	agacttttga	ttatcccgat	atatggaaga	tagtacttac	1980
tacaaagctt	ccaaaggaaa	attgcttatt	aaatggatgg	ctccagagtc	aatcaatttt	2040
cgacgtttta	cctcagctag	tgacgtatgg	atgtttgggtg	tgtgtatgtg	ggagatactg	2100
atgcatggtg	tgaagccttt	tcaaggagtg	aagaacaatg	atgtaatcgg	tcgaattgaa	2160
aatggggaaa	gattaccaat	gcctccaaat	tgtcctocta	ccctctacag	ccttatgacg	2220
aatgctggg	cctatgaccc	cagcaggcgg	cccaggttta	ctgaacttaa	agctcagctc	2280
agcacaatcc	tgagggaaga	gaaggctcag	caagaagagc	gcatgaggat	ggagtcagca	2340
agacaggcca	cagtgtctctg	ggactccgga	gggtctgatg	aagcaccgcc	caagcccagc	2400
agaccgggtt	atcccagtc	gaggtccagc	gaaggatttt	atcccagccc	acagcacatg	2460
gtacaaacca	atcattacca	ggtttctggc	taccctgggt	cacatggaat	cacagccatg	2520
gctggcagca	tctatccagg	tcaggcatct	cttttggacc	aaacagattc	atggaaatca	2580
agacctcagg	agatagcaat	gtggcagccc	aatgtggagg	actctacagt	attggacctg	2640
cgagggattg	ggcaagtgtt	gccaaacctat	ctgatggaag	agcgtctaat	ccgacagcaa	2700
caggaaatgg	aagaagatca	gcgctggctg	gaaaaagagg	aaagatttct	gaaacctgat	2760
gtgagactct	ctcagggcag	tattgacagg	gaggatggaa	gtcttcaggg	tccgattgga	2820
aaccaacata	tatatcagcc	tgtgggtaaa	ccagatcctg	cagctccacc	aaagaaaccg	2880
cctcgccctg	gagctcccg	tcatctggga	agccttgcca	gcctcagcag	ccctgctgac	2940
agctacaacg	aggggtgtcaa	gccatggagg	cttcagcccc	aggaaatcag	ccccctcct	3000
actgccaaac	tggaccggtc	gaatgataag	gtgtacgaga	atgtgacggg	cctgggtgaa	3060
gctgtcatcg	agatgtccag	taaaatccag	ccagccccac	cagaggagta	tgctccctatg	3120
gtgaagggaag	tcggcttggc	cctgaggaca	ttattggcca	ctgtggatga	gaccattccc	3180
ctcctaccag	ccagcaccca	ccgagagatt	gagatggcac	agaagctatt	gaactctgac	3240
ctgggtgagc	tcatcaacaa	gatgaaactg	gccagcaggt	atgtcatgac	cagcctccag	3300
caagagtaca	aaaagcaaat	gctgactgct	gctcagccc	tggctgtgga	tgccaaaaac	3360
ttactcgatg	tcattgacca	agcaagactg	aaaatgcttg	ggcagacgag	accacactga	3420
gcctcccta	ggagcacgtc	ttgtaccct	cttttgaaga	tgctctctag	ccttccacca	3480
gcagcgagga	attaacctgt	tgctctcagt	cgcagcact	tacagctcca	acttttttga	3540
atgaccatct	gggtgaaaaa	tctttctcat	ataagtttaa	ccacactttg	atttgggttc	3600
attttttgtt	ttgttttttt	caatcatgat	atccagaaaa	atccaggatc	caaaatgtgg	3660
cgtttttcta	agaatgaaaa	ttatatgtaa	gcttttaagc	atcatgaaga	acaatttatg	3720

ttcacattaa	gatacgttct	aaagggggat	ggccaagggg	tgacatctta	attcctaaac	3780
taccttagct	gcatagtggg	agaggagagc	atgaagcaaa	gaattccagg	aaaccaaga	3840
ggctgagaat	tcttttgtct	accatagaat	tattatccag	actggaattt	ttgtttgtta	3900
gaacaccctt	cagttgcaat	atgctaatac	cactttacaa	agaatataaa	agctatattt	3960
tgaagacttg	agttatttca	gaaaaaacta	cagccctttt	tgtcttacct	gccttttact	4020
ttcgtgtgga	tatgtgaagc	attgggtcgg	gaactagctg	tagaacacaa	ctaaaaactc	4080
atgtcttttt	tcacagaata	atgtgccagt	tttttgtagc	aatgatattt	ctcttgggaag	4140
cagaaatgct	ttgtaccaga	gcacctccaa	actgcattga	ggagaagtgc	cagaaccatc	4200
ccctttttoc	atttttatat	aatttataaa	gaaagattaa	agccatgttg	actattttac	4260
agccactgga	gttaactaac	ccttccttgt	atctgtcttc	ccaggagaga	atgaagcaaa	4320
acagggaattt	ggttttcttt	tgatgtccag	ttacaccatc	cattctgtta	attttgaaaa	4380
aatataccct	cccttttagtt	tgttggggga	tataaattat	tctcaggaag	aatataatga	4440
actgtacagt	tactttgacc	tattaaaaag	gtgttaccag	t		4481

<210> 93
<211> 5032
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 445186.7

<220>
<221> unsure
<222> 5019
<223> a, t, c, g, or other

<400> 93						
ggcgggggga	atatacaaag	tgaagccaca	ttgccaaact	tgcagcagcg	attgcagcag	60
ttgctgccgc	tgcgccgcgc	ctgaagccgc	gccgcgcggg	ccgaggggctc	ctgcagctgc	120
tcgcgcgcag	tcggaggcgg	agaaggacga	agactgagac	tgacacttct	gctcccggcc	180
gccccgcact	tacgcggggg	ccccccaacc	cgccccagag	caacgcgatt	taaaaaaaaa	240
aaaaaagccg	cccttagccc	cctcctcccc	tttctgtctt	ctgcgagaaac	tcctctccctc	300
cctccagctt	ccgccagccc	aggcgccctt	tccttggaag	ccgagcggct	tcgctcgcat	360
ttcaccgcgc	ccgcctctcg	caatatttga	atatagggga	aaagcagacc	atggtgaatc	420
cgggcagcag	ctcgacgcgc	cccccggtga	cggccggctc	cctctcctgg	aagcggtgcg	480
caggctgcgg	gggcaagatt	gcggaaccgt	ttctgtctta	tgccatggac	agctattggc	540
acagccgggt	cctcaagtgc	tcctgtctgc	aggcgagct	ggcgacatc	ggcacgtctc	600
gttacaccaa	aagtggcatg	atccttttga	gaaatgacta	cattaggtta	tttggaataa	660
gcggtgcttg	cagcgcttgc	ggacagtcga	ttctgtcgag	tgaaactcgtc	atgagggcgc	720
aaggcaatgt	gtatcatctt	aagtgtttta	catgtctctac	ctgcgcggaat	cgctctggctc	780
cgggagatcg	gtttcattac	atcaatggca	gtttattttg	tgaacatgat	agacctacag	840
ctctcatcaa	tggccatttg	aattcacttc	agagcaatcc	actactgcca	gaccagaagg	900
tctgctaaaa	ggtcagagta	atgcagaatg	cgtgccttca	tctcagattt	gttcatcaca	960
ggtggatccc	atgtgtcttc	agtagacaag	tcacctttgt	agctagcacc	agtgcagct	1020
ccatgccatt	gcaccttctt	tagtcttgat	tgcccttccc	gcattttattg	gtgtatttaa	1080
atgactgaat	atgaacatta	aggactccat	gaacctgggc	taatgggaga	ctgtagagaa	1140
aatgaaaaaa	gatccaccag	aggacatctt	ggggaggggg	agggagctgg	gggggagggga	1200
aatgactaat	gaagctaatt	aaaagaagca	ttcaaactctg	ctttctaccc	tcattaacaa	1260
ttagcagggc	actggccaga	gtttgtaccc	tgtgttttac	cttaacaaca	ttctattttgc	1320
tctttgtata	tttaagtgtt	gtaaggaaac	gtgtttcaat	caaaactgac	catgagataa	1380
aggaaagaga	tgtggctttt	gtgatattct	atcacaaaca	cttattgtat	ctctgtaaaa	1440
tacaatgtat	gtatgcatgt	aagtgttttt	gtcctaattgt	tgctactccc	atggcaaaga	1500
aaaaaaaaag	aatgaaaaaa	agaaaaaaat	ttggaaaaaa	aaatcaggct	catagcagct	1560
actgtgtaga	aaattccccc	tactttcta	ttgctgaatg	aagaaaaaaa	aaaatctttt	1620
atttgtgata	ttttcagaga	catttgcctc	agtatgggtg	attttaataa	taaaaactta	1680
aaagaaaaaa	tatttaattg	tgtttgggtt	taaacactgc	tttttctctt	ctgtattttg	1740
aagaaattta	gtttttattg	ttgttggaata	acaagctcac	tttaaatttg	aaggagtga	1800
gggaggtgga	gtgtatattt	athtagctct	gggccagtaa	ggtattcttc	aaattactta	1860
accagcccat	tattggcagg	ggtacaaagt	agtttctaac	agggtccttt	ctataagtca	1920
agaatattct	gttaacagca	tttcgttaca	ctctatatatc	acagtaagtc	ttttgtgttt	1980
ataaatactt	gagtgtccac	tattttgttt	attctttttc	tcaatagcaa	acaaagcctt	2040
gggtattgat	gaaaagtatg	tataaaaaaa	aatacggcac	aaccatcctg	ttctcttatt	2100
gagttttatg	cttttgaagg	aagtcacaat	ttctaagtca	tacctgtaca	tattttgaag	2160
ctcatttagt	tgtagggacc	cagagctctt	tttttatggg	gatctttgat	tggtgaagta	2220
gccatttctt	ggtgaccctt	aggctcgtgt	gggtggctgt	aagggtgtta	ttttgttttg	2280

```

ctcctacact tctttactga ctgcgtttcc gtatgtattt tgggggaaga ttctgacttc 2340
atttagtctt agtcttgaga tactgagttg ctgggttcag gcagcagagt gtccaccaca 2400
gtgcctgcac tgccgcgaga gctgccctcc ggaaagcatg cagtataaca gctagtgtctg 2460
gaaggaggaa aaccaaatag gcctggaggc tgaggttgta ctgccagctt ccttagatgt 2520
gagcaaat ttttcttttt aagatggcat tttattttgt tccagaaaag cgcctgatgt 2580
tattttaaat tctgagaata gccgtggagc catgtagaga ggtgtagctc agcacatctc 2640
agaccctccc cagcttccct ttgagaactt ctgtgtcac ttctgtttt cagagattcc 2700
aactaccagt agggcagggg aaaaaaaa tcagttgaac ttcaaacctc cttagaggaga ttgtaaaggc 2760
aggcagggg ggtgaatagt tttgttagaa cctataaaaa ataaaatgca agaaaataat 2820
atagagttga cacatatata tgtttgaatt agatgtctgt ttgaattaga tccttgggga 2880
atgaagaaat actagtctctg gttcttataat ttgtttttt tctttaagg aactttctga 2940
atcttctcaa agtcgagtg taaaggggga aatgggttaa tgagattgca ggcattttct 3000
atattctttt tggcataagc acttatgtcc ctgatatgta caaattcaaa ggaggtgtgt 3060
aataacttta gtaaataata tattgtcgca tttaatgatg tggagggcta aggtcattac 3120
ggactttaaa taaactatta tatggctggt tctcaagca ctgctgcgta ttaataaatg 3180
agcttctaaa agcatttctt aagttgcaga cctataagat tacaatgtc actcatgtta 3240
gtataatcca catgcaagtg atgaagcctt ctctttgatg tgctaaattg gagaaggact 3300
aatggagcta tgaatataca atagaacata tttagtagt agtcttgctt taggtaaaac 3360
actttcttga aaccagaggc atttcaaaca ataaaaccg gctctaattg ggatgctctg 3420
tgtggataga aagctactaa aaacactcag gtttattctg atgtgagcag cgatttgtgtg 3480
cagttctctc ccacatctca acattgtctt ggaaaaaaa aaatctatga gtttattcca 3540
cctttcatcc attgcatctg tgatgttatt agttagcaag atggacactg ttcttttagaa 3600
aggacttatt taatattaac cagctcatag agcaagatgg ccccgagtc ctacaagcaa 3660
gtgcaattaa aaataaaagc aaatgttact gagccctgct gaactcctga taaaaaaaat 3720
tatgtttatg gtacatatac atgtctcaat catgcaaatt gtcactcttg ttaatgaaac 3780
aattttgtaa aaagatagtc ctctaaaagg gtttaagtgt ttttacctat ctaactgtct 3840
aattagattt acacatcccg caaggcaggg gagcctgaag gcttttccaa accaaatcgt 3900
ttgccactag aaactatttt cagctcttca tgatttatta ggaaatagtt taaccgggac 3960
tgtagtgtct tataaaatac aaaacgagaa aactgacaca ccaaaatgaa gtctgtgaaa 4020
ttgtcatcct cttaatatta cctgtattta aattctttct tttgccctta ttaacactga 4080
tatttgaaac aactaatcat ctaaaaggaa gctcttaag ggctttaaat gtcaatatag 4140
taagattcta atgtgcacta ctatttataat aaaatatttc ttagggccca taaatcatat 4200
aataaacagt gaacccaaga gctacatatg gagtctagt aagagttccc atgtagccta 4260
actaatgtta ttttaattga ggagatccaa aaacccatc acccttcacc atgtagccta 4320
cttcaccctt caccagggaa ttctatctcg ggtgtgtgac cacctatgac ccaagagccc 4380
ggccattgga aaaaggccat ttacaagtta atgttactta tagctttgtt actaagactc 4440
acctattggt agtgcagcca agtcacagaa gtgcttattg cagttaaata gcaatttggt 4500
tccatgaaac tcctaatgaa gtattactga gcagccattt tagattggca gtgctctgaa 4560
cgcatgttaa acagccagct actcccactt agatctgact agcagcaaag 4620
tgtagcacat tcgccgatgc tgggtaccta gttaaagagg catttgtagc cctctgctcc 4680
catcgtgaac atgtcgagag caatgacaag tcagggtctg gttttggaag gtgaacttgc 4740
aacttacctc aagtgaatac tgttttcagt tgtgcaagaa gtgctttatg ctagttagata 4800
tgtcgtggtt tcttagaggg aatgttttca agttcagatt gattctgctg agaatggagc 4860
gcaactcgga ggctcaagc caataatgta ctacaggccc tgacatgtta cagctgtgta 4920
aacaggggcca ttctatttcc taaatcacia ctaataaanc agaggatgaa aa 5032

```

<210> 94
<211> 3366
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 474496.2

<220>
<221> unsure
<222> 2912-3147, 3200, 3216, 3237, 3363
<223> a, t, c, g, or other

```

<400> 94
ctcggaggca gcgagacagc ccaccaggcg gctgctcgcc gttctctcag gtgactgtct 60
ggagttctct cagtgttagg tgttgcaagc aggatccaaa ggagacctat agtgactccc 120
aggagctctt agtgaccaag tgaaggtaac tgtggggctc attgtgcccc ttgctctttc 180
actgctttca actggttagt gtgggttgaa gcactggaca atgccacata ctttgtggat 240
ggtgtgggtc ttgggggtca tcatcagcct ctccaaggaa gaatcctcca atcaggcttc 300

```


tctgttctgt gaccgcaatg gtatctgcaa gggcagctca ggatctttaa actccattcc 360
ctcagggtct acagaagctg taaaaagcct tgacctgtcc aacaacagga tcacctacat 420
tagcaacagt gacctacaga ggtgtgtgaa cctccaggct ctggtgtgta catccaatgg 480
aattaacaca atagaggaag attcttttctc ttccctgggc agtcttgaaac atttagactt 540
atcctataat tacttatcta atttatcgtc ttccctgggtc aagccccctt cttctttaa 600
attcttaaac ttactgggaa atccttacaa aaccctaggg gaaacatctc ttttttctca 660
tctcacaaaa ttgcaaatcc tgagagtggg aaatatggac accttcaacta agattcaaa 720
aaaagatttt gctggactta ccttccttga ggaacttgag attgatgctt cagatctaca 780
gagctatgag ccaaaaagtt tgaagtcaat tcagaatgta agtcatctga tccctcatat 840
gaagcagcat attttactgc tggagatttt tgtagatggt acaagttccg tggaaatggt 900
ggaactgcga gatactgatt tggacacttt ccatttttca gaactatcca ctggtgaaac 960
aaattcattg attaaaaagt ttacattttag aaatgtgaaa atcaccgatg aaagtgtgtt 1020
tcaggttatg aaacttttga atcagatttc tggattgtta gaattagagt ttgatgactg 1080
tacccttaat ggagtgtgta atttttagagc atctgataat gacagagtta tagatccagg 1140
taaagtggaa acgttaacaa tccggaggct gcatattcca aggttttact tattttatga 1200
tctgagcact ttatattcac ttacagaaag agttaaaaga atcacagtag aaaacagtaa 1260
agtttttctg gttccttgtt tactttcaca acatttataa tcattagaat acttggatct 1320
cagtgtaaaa ttgatgtgtg aagaatactt gaataattca gcctgtgagg atgcctggcc 1380
ctctctacaa actttaattt taaggcaaaa tcatttggca tcattggaaa aaaccggaga 1440
gactttgtct actctgaaaa acttgactaa cattgatatc agtaagaata gttttcattc 1500
tatgctgaa acttgtcagt ggccagaaaa gatgaaatat ttgaacttat ccagcacacg 1560
aatcacagat gtaacagggt gacactggaa gacactggaa attttagatg ttagcaacaa 1620
caatctcaat ttattttctt tgaatttgcc gcaactcaaa gaactttata tttccagaaa 1680
taagttgatg actctaccag atgcctccct cttaccatg ttactagtat tgaaaatcag 1740
taggaatgca ataactacgt tttctaagga gcaacttgac tcatttcaca cactgaagac 1800
tttggaaagt ggtggcaata acttcatttg ctccctgtgaa ttccctcctc tccactcagg 1860
gcagcaagca ctggcctaaag tcttgattga ttggccagca aattacctgt gtgactctcc 1920
atcccatgtg cgtggccagc aggttcagga tgtccgcctc tcggtgtcgg aatgtcacag 1980
gacagcactg gtgtctggca tgtgtctgtg tctgttccctg ctgatccctgc tcacgggggt 2040
cctgtgccac cgtttccatg gcctgtggta atgtgggctt ggctccaggc 2100
caaaaggaaag cccaggaaaag ctcccagcag tatgatgcat ttgtttctta 2160
cagtgagcgg gatgcctact ggggtggagaa ccttatggtc caggagctgg agaactcaa 2220
tcccccttcc aagtgtgtgc ttcataagcg ggacttcatt cctggcaagt ggatcattga 2280
caatatcatt gactccattg aaaagagcca caaaactgtc tttgtgcttt ctgaaaactt 2340
tgtgaagagt gagtgtgca agtatgaact ggacttctcc catttccgtc tttttgatga 2400
gaacaatgat gctgccattc tcattcttct ggagcccatt gagaaaaaag ccattcccca 2460
gcgttctctg aagctgcgga agataatgaa caccaagacc tacctggagt gcgataaagt 2520
cgaggctcag cgggaaggat tttgggtaaa tctgagagct gcgataaagt cctaggttcc 2580
catatttaag accagtcttt gtctagttgg gatctttatg tcactagtta tagttaagt 2640
cattcagaca taattatata aaaactacgt ggatgtaccg tcatttgagg acttgcttac 2700
taaaactaca aaacttcaaa ttttgtctgg ggtgtctgtt tataaacata tgccagattt 2760
aaaaattggt ttttggtttt tcttttttct atgagataac catgatcata agtctattac 2820
tgataatcga atatagtccc ttggtatcca aggggaattg ttgcaggatc ctcgtggata 2880
tcaaaattca tagatgatca agtcccttat annnnnnnnnn nnnnnnnnnn nnnnnnnnnn 2940
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 3000
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 3060
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 3120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 3180
cacaatgaa ctttaagattn tcaatgactg tgcantctt ctttctctgt aagagantcc 3240
tctgtggcca caaaaggcat tctctgtcct acctagctgt cacttctctg tgcagctgat 3300
ctcaagagca acaaggcaaa gtatttgggg cactcccca aacttgttgc tattcctaga 3360
aanaag 3366

<210> 95
<211> 2642
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 257114.7

<400> 95
gcggcgccgg ttgaactgac tcggagcgag gagaccgag cgagcagacg cggccctctg 60
cgccgcctc gcgcatcac catggcgatg catttcatct tctcagatac agcgggtgctt 120
ctgtttgatt tctggagtggt ccacagtcct gctggcatgg ccttttgggt gttgggtgctc 180
ctgcttctgg ctgtactgta tgaaggcatc aaggttggca aagccaagct gctcaaccag 240

gtactggtga	acctgccaac	ctccatcagc	cagcagacca	tcgcagagac	agacggggac	300
tctgcaggct	cagattcatt	ccctgttggc	agaacccacc	acagggtggt	tttgtgtcac	360
tttgccaggt	ctctaataca	tgatcatccag	gtgggtcatcg	gctacttcat	catgctggcc	420
gtaatgtcct	acaacacctg	gatttttcct	gggtgtggtct	tgggctctgc	tgtgggctac	480
tacctagctt	acccacttct	cagcacagct	tagctgggtga	ggaacgtgca	ggcactgagg	540
ctggagggac	atggagcccc	ctcttccaga	cactatactt	ccaactgccc	tttcttctga	600
tggctattcc	tccaccttat	tcccagcccc	tggaaacttt	gagctgaagc	cagcacttgc	660
tccctggagt	tcggaagcca	ttgcagcaac	cttcccttct	agccagccta	catagggccc	720
aggcatggtc	ttgtgtctta	agacagctgc	tgtgaccaa	gggagaatgg	agataaacgg	780
gggtggcaggg	ttactgagcc	catgacaatg	cttctctgtg	actcaaacca	ggaatttcca	840
aagatttcaa	gccagggaga	aggggttctt	gtgatgcagg	gcattggaacc	tggacaccc	900
cagctctcct	gctttgtgcc	ttatctacag	gagcatcgcc	cattggactt	cctgacctct	960
tctgtctttg	agggacagag	accaagctag	atcctttttc	tcacctttct	gcctttggaa	1020
cacatgaaga	tcactctgtc	tatggatcat	cttgacaaac	taagtttttt	ttatttttcc	1080
cattgaactc	ctagttggca	atthttgcaca	ttcatacaaa	aaaattttta	atgaaatgat	1140
ttcattgatt	catgatggat	ggcagaaact	gctgagacct	atttcccttt	cttggggaga	1200
gaataagtga	cagctgatta	aaggcagaga	cacaggactg	ctttcaggct	cctggtttat	1260
tctctgattg	ctcctgtgag	ctccttccac	cagaaggcac	tgctgcagg	aagaagatga	1320
tctgatggcc	gtgggtgtct	gggaagctct	tcgtggcctc	aatgccctcc	tttatcctca	1380
tctttcttct	atgcagaaca	aaaagctgca	tctaataatg	ttcaataact	aatattctct	1440
atthattact	tactgcttac	tcgtaatgat	ctagtgggga	aacatgattc	attcacttaa	1500
aatactgatt	aagccatggg	caggtactga	ctgaagatgc	aatccaacca	aagccattac	1560
atthtttgag	ttagatggga	ctctctggat	agttgaacct	cttcacttta	taaaaaagga	1620
aagagagaaa	atcactgctg	tataactaat	acctcacaga	ttagatgaaa	agatggttgt	1680
aagctttggg	aattaaaaac	aaacaaatac	atthttagtaa	atatataatt	ttaaatagtc	1740
tatgactggt	ctgttctcct	aattccaaca	gaaagcacat	gaacccttgt	aacaactgca	1800
ggggctgagt	ggggttaata	gaactggtag	tactctttat	aagcctgtct	gaggacagag	1860
tccatccatc	tgctacaaag	acaactctgc	tcagggaaac	ccagccctga	aatgctgcac	1920
ccaggtagac	accccagaat	gccaaactgag	gcaagtcaag	tcattcttca	ttcatgtaac	1980
aagtattaat	tgagtacatg	ctataagaaa	agtaactgtc	acacggactt	taagcacctg	2040
tgttggcaca	attactcagc	atcttctctc	cctgcgggca	gaagcaaata	taatagccac	2100
tagttaattt	acaataagaa	ataactgccc	tagaaagtag	actatgtcac	accttttagga	2160
ctgatcaggg	cattccccca	tgthttgcagg	gaactggaaa	gctgcctggg	gtctcaagaa	2220
gcctgtttct	aaaagcatca	ccgccccttc	cccccaaccag	tgacagtcca	ggctgtgtctg	2280
gccaaagagc	caggctctgg	aatcagatgg	ccaggatttg	aattcttctg	ctgaggcttc	2340
ctagatatgt	aactttgggg	aaattacttt	acctctctaa	gtctcagttt	tctcctctat	2400
aaaatggtga	taacactgtc	ttctgcagtg	gttgctggag	ataagccagt	ctgtgaaagt	2460
gccaaacagc	accgcctttt	gttaagcaac	aaagaaataa	ttagtctcca	ctgcctccca	2520
ggtcgcgaca	cgggagacat	atccaaagcc	tgcaaggatg	atgccaggcc	agatgaagtg	2580
gaattttggg	tcctatcttt	taaaacattt	aaaatcaaga	aacatttttt	attaaaaatta	2640
at						2642

<210> 96

<211> 845

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 984005.1

<220>

<221> unsure

<222> 805

<223> a, t, c, g, or other

<400> 96

ggagaaatca	cataacctta	aaaaggacta	tattaatcac	cttcttttga	atcccttcac	60
agtcccaggt	ttagtgaaaa	actgctgtaa	acacagggga	cacagcttaa	caatgcaact	120
tttaattact	gttttctttt	ttcttaacct	actaatagtt	tgthgatctg	ataagcaaga	180
gtgggcgggt	gagaaaaacc	gaattgggtt	tagtcaatca	ctgcaactga	tgcaaacagg	240
aaacgtgtca	caactgtgtg	gtcgggcatt	catataggaa	gaacgcgggtg	tgtaacactg	300
tgtacacctc	aaataccacc	ccaacccact	ccctgtagt	aatcctctgt	ttagaacacc	360
aaagataagg	actagatact	actttctctt	tttcgtataa	tctttagtag	acttacttga	420
tgatttttaa	cttttttatt	ctaaatgaga	cgaatgtctg	atgtatcctt	tcattcagct	480
aacaaactag	aaaaggttat	gttcattttt	caaaaaggga	agtaagcaaa	caaataattg	540
caactcttct	atthtatggat	atcacacata	tcagcaggag	taataaattt	actcacagca	600

```

cttgtttttca ggacaacact tcatttttcag gaaatctact tcctacagag ccaaaatgcc 660
athtagcaat aaataacact tgtcagcctc agagcattta aggaaactag acaagtaaaa 720
ttatcctctt tgtaatttaa tgaaaaggta caacagaata atgcatgatg aactcaccta 780
attatgaggt gggaggagcg aaatntaaat ttcttttgct atagttatac atcaatttaa 840
aaagc                                         845

```

<210> 97

<211> 1696

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 977667.1

<400> 97

```

gagccccaga gagaaagacg gtcatttctc ccttgcattc tcccttgggg ctttaaaaaa 60
cacagccctt gggcaggagg gaccttcgat cctcggggag ccaggagac cagaacatgg 120
actccttcaa ttataccacc cctgattatg ggcactatga tgacaaggat accctggacc 180
tcaacacccc tgtggataaa acttctaaca cgctgcgtgt tccagacatc ctggccttgg 240
tcatctttgc agtcgtcttc ctgggtgggag tgctggggcaa tgccctgggtg gtctgggtga 300
cggcatttga ggccaagcgg accatcaatg ccactctggt cctcaacttg gcggtagccg 360
acttctcttc ctgcctggcg ctgcccattc tgttcacgtc cattgtacag catcaccact 420
ggccctttgg cggggcgccc tgcagcatcc tgccctccct catcctgctc aacatgtacg 480
ccagcatcct gctcctggcc accatcagcg ccgaccgctt tctgctgggtg tttaaaccca 540
tctgggtgcc gaacttcoga ggggcccggc ttggcctggat cgcctgtgcc gtggcttggg 600
gttttagcct gctgctgacc ataccctcct tccctgtacc ggtgggtccg gaggagtact 660
ttccaccaa ggtgttgtgt ggcgtggact acagccacga caaacggcgg gagcgagccg 720
tggccatcgt ccggtgtgtc ctgggcttcc tgtggcctct actcacgctc acgatttgtt 780
acactttcat cctgctccgg acgtggagcc gcagggccac gcggtccacc aagacactca 840
aggtgtgtgt ggcaatggtg gccagtttct ttatctcttg gttgccctac caggtgacgg 900
ggataatgat gtcttctctg gagccatcgt caccacactt cctgctgctg aataagctgg 960
actcctgtgt tgtctccttt gcctacatca actgctgcat caaccccatc atctacgtgg 1020
tggccggcca gggcttccag ggccgactgc ggaatccct cccagcctc ctccgggaacg 1080
tgttgactga agagtccgtg gttagggaga gcaagtcat cagcgctcc acagtggaca 1140
ctatggccca gaagaccag gcagtgtagg cgacagcctc atgggccact gtggcccgat 1200
gtccccttcc ttcccgccca ttctccctct tgtttttact tcacttttgg tgggatggtg 1260
ttaccttagc taactaactc tcttccatgt tgcctgtctt tcccagactt gtccctcctt 1320
ttccagcggg actcttctca tcttctctca tttgcaagggt gaacacttcc ttctagggag 1380
caccctccca cccccacc cccacacac accatcttcc catcccaggc ttttgaaaaa 1440
caaacagaaa cccgtgtatc tgggatattt ccatatggca ataggtgtga acagggaaact 1500
cagaatacag acaagtagaa agattctcgc ttaaaaaaat gtattttatt tatggcaagt 1560
tggaaaatat gtaactggaa tctcaaaagt tctttgggac aaaacagaag tccatggagt 1620
tatctaagct cttgtaagt agttaattta aaaaagaaaa ttaggtctgag agcagtggct 1680
cacgctgta acccag                                         1696

```

<210> 98

<211> 1727

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 996862.4

<400> 98

```

cagcgccgag gtgcgccgag caggagcagg gaacaaagga gcggagaggg gaggggagag 60
agttgggcca gggagagccc ccggccggct gccagaagat cccggcgggg ggaagcccaa 120
gtgtcacttg aattccaccc aaggagcggg cgcttgggat cagagcgtcc tgttttagcaa 180
taacggcttg agcacgtcct acaagttacg ggagagtcgg ctgtgaagga gacgttcgct 240
tatccctgt gtccccctc ctggccccct cagacccccg ccttgccctg cgctgggagg 300
ggagatccag aatgaaaggc aagaaaggta ttgttgacg atctggcagt gagactgagg 360
atgaggacag catggacatt cccttggaac tttcttcac cgctggctca ggcaagagaa 420
ggagaagggg caacctaccc aaggagtctg tgcagattct tcgggatttg ctgtatgagc 480
accgttacaa tgcctatcct tcagagcaag aaaaagcgtt gctgtcccag caaacacacc 540
tgtctacgct aactggttca aactggctc tcaacgccc cgcaggtctc ctccctgaca 600
tgctgagaaa ggatggcaaa gatccaaatc agttcacaa ttcccgcgt ggggccaaga 660

```

tttctgaaac	gagctctgtg	gagtcctgtg	tgggcatcaa	aaacttcatg	ccagctctag	720
aggagacccc	atttcatctc	tgtacagctg	ggccaaaccc	aaccctaggg	aggccactgt	780
ctcctaagcc	gtcatccccg	ggatcagttt	tggctcgtcc	atcagtgatc	tgccatacca	840
ctgtgactgc	attgaaagat	gtccctttct	ctctctgcca	gtcggtcggt	gtgggacaaa	900
acacagatat	acagcagata	gcggccaaaa	acttcacaga	cacctctctc	atgtaccag	960
aggacacttg	taaactctga	ccaagtacga	atacacagag	tggctctttc	aacactcctc	1020
cccctactcc	accggacctc	aaccaggact	tcagtggtat	tcagcttcta	gtggatgttg	1080
cactcaaacy	ggctgcagag	atggagcttc	aggcaaaact	tacagcttaa	cccattttca	1140
agcaaaacag	ttctcagaaa	tgtcatgatt	gccggggtga	aggcaagaga	tgaattgcat	1200
tattttatat	atTTTTtatt	aatatttgca	catgggattg	ctaaaacagc	ttcctgttac	1260
tgagatgtct	tcaatggaat	acagtcattc	caagaactat	aaacttaaag	ctactgtaga	1320
aacaaagggt	tttctttttt	aaatgtttct	tggtagatta	ttcataatgt	gagatggttc	1380
ccaatatcat	gtgatttttt	tttctctccc	ttcccttttt	ttgtattttt	ttcagactgt	1440
gcaatactta	gagaacctat	agcatcttct	cattcccatg	tggaacagga	tgcccacata	1500
ctgtctaatt	aataaatttt	ccattttttt	tcaacaagt	atgaatctag	ttggttgatg	1560
cctttttttt	catgacataa	taaagtattt	tctttaaaaa	ttgttgtaat	tcagagtatt	1620
tctgttgagg	gaggtgcttc	ttaaaaaata	gtaggaatat	agcaccacag	tgagcaggaa	1680
gctggggggg	tagggtgcag	tgtagggggg	gtgcaccagc	tctttga		1727

<210> 99
 <211> 5347
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 364940.19

<400> 99						
taaattgggt	ctattaccta	ggctgcgaat	gtctaattgt	ggctaatacct	ttgtgcattt	60
tccatataga	taagtcctag	cttaagtaac	caaaaactag	ttttaaaaaa	aacaaggcat	120
gtatcatgtc	tccatcccc	aagaccacgc	tcctttcagc	ctgaggcaag	tcaaaaagcc	180
ccgtcaaaac	aaccaaagat	acctactttt	ggaattccca	ctctctgttg	tccaatggac	240
acacctgtcg	tgttttgagc	cagcgagaga	tgcagtggaa	gtgaaaagca	tggttacaga	300
ctcccatgc	gacagtacac	tcttctgaag	tagcggacgc	ctggtagct	tgacattcta	360
tgcaaagatc	cataatgtgg	ttcctgcaga	tggcacagtt	atcaaccaca	atatcccagg	420
cccagagggc	tactgcattc	cactttttca	cttcaaagcg	cttcttgccc	cgcgcgctg	480
ttggtgccgc	tcgggggtatc	cacatccatc	gctgcgggct	cacaaagcgg	ccagacgctc	540
ggcgccggcg	tgtggcagga	gcgccggggc	gcgagccggc	gatcagcctt	cccggcgacc	600
gtgcgcgggg	agctcgagca	actcggacta	ggggaccggg	gccggccccc	aagatgcggg	660
cgatcgcggt	gttggcggcg	gcccgcggcg	cgtggtgctt	cctccaagtc	gagagccggc	720
acctggacgc	gctcgcggga	ggcgcgggcc	ccaaccacgg	caatttccta	gacaatgacc	780
atggcttag	caccgtctcc	cagtagcacc	gggacaagta	ctggaaccgc	tttcgagacg	840
atgatttatt	cagaaactgg	aatcccaaca	agccctttga	ccaagccctg	gacctatcca	900
aggaccctcg	cctgaaggta	aaatgcagcc	ctcacaaagt	gtgtgtgacc	caggactacc	960
agaccgccct	gtgtgtcagc	cgcaagcacc	tgctccccag	gcaaaagaag	gggaacgtgg	1020
ccgagaaca	ctgggttgga	ccttcgaatt	tggtcaagt	caagccctgt	cccgtggcac	1080
agtcagccat	ggtctgcggc	tcagatggcc	actoctacac	atccaagtgc	aaattggagt	1140
tccatgcttg	ttctactggc	aaaagcctcg	ccaccctctg	tgatggggcc	tgtccctgtc	1200
tcccagagcc	tgagccacca	aagcacaagg	cagaaaggag	tgctgcaca	gacaaggagt	1260
tgcggaacct	tgctcccg	ctgaaggatt	ggtttgagc	tctccacgag	gatgcgaaca	1320
gagtcatcaa	gcccaccagc	tccaacacag	ccaaggcag	gtttgacact	agcatcctgc	1380
ccatctgcaa	ggactccctg	ggctggatgt	tcaacaagtt	ggacatgaac	tatgacctcc	1440
tgcttgaccc	ttcagagatc	aatgccatct	acctggataa	gtacgagccc	tgtatcaagc	1500
ctcttttcaa	ctcgtgtgac	tccttcaagg	atggcaagct	ttctaacaat	gagtgtgtgt	1560
actgcttcca	gaagcctgga	ggtctccctt	gccagaatga	aatgaacaga	attcagaagc	1620
tgagtaaggg	gaaaagcctg	ttgggggcct	tcataacctg	gtgtaatgag	gagggctatt	1680
acaaagccac	acagtgccac	ggcagcacgg	ggcagtgtctg	gtgtgtggac	aaatatggga	1740
atgagttggc	tggtccagg	aaacaggggtg	ctgtgagctg	tgaagaggag	caggaaacct	1800
caggggattt	tggcagtggg	gggtccgtgg	tcctgtctga	tgacctagaa	tatgaacggg	1860
agctgggacc	aaaggacaaa	gaggggaagc	tgaggggtgca	caccgcagcc	gtgacagagg	1920
atgatgagga	tgaggatgat	gacaaagagg	atgaggtcgg	gtacatatgg	tagtgcccac	1980
aagaagagg	acacaagttt	tgcacaaaat	tgcaagtcac	ttcctattcc	tgcatttgta	2040
tctaagactc	caaggcacca	aggtctcttc	tccattgttg	ctctctatac	ccgacctaac	2100
gtttggaaga	caactgcttg	ttcccagagg	attctgattt	tgcatatggt	tgtatgggag	2160
aaaggggtgt	gtgtgttttt	ttttgttttt	gttttttttt	tggaaggga	agtcattggc	2220
ttaattagag	cctccttctc	ttctgtgaga	tttttccaac	aagcatgtga	tttacgtgga	2280

```

attctgacag tgcagggagc cccaccctc ttaaattgtca aagacccttt ttgattaccc 2340
acactgggtgg ttattacagc atgggttccca gccttacagt gtctaagtgc ttctcttgtg 2400
tcctgtagat gttgtgaaaa agaaaaaaac aaaaaatata ccacactgta ctttttcccc 2460
ctgcccccggt tactgccgggt gattattatt aaaaattagt ttttttcaca tcattatata 2520
tggcttcccta taaacaacag ccttaattca gtcaagactc cctttgggga attcatttta 2580
ttaaaaaattg gtgtctggat acttccctgt acatgcataa atatgcatgc atgtacagaa 2640
agactgtatg tgtgtgcctt gcacacacac ccatacctct cagaaaaagt gtttgggtat 2700
cttaaaaaact cgaaaaacaa tgataaattt ctcagcttgt ccagacctgg aacaaaaatt 2760
ctggaataag aaatttgtat taaagtcctt ttttgcacta acagttggct cttgtagcct 2820
gcaggtctgag gaagtctctt ctctgtgcat cagcagagtt actgaaagcc tctgattgag 2880
aaaaaacctc cgtctgccta aatcactttt ctgcgagaag ccatgcgact cccacacgac 2940
acgggcagct tcacaagcca tctctttcat ttctgcttga agcccccttg gctgcagcaa 3000
tcctgtctgc catagtttct ttccttctct acctactcaa gggctttttc taaggcatgc 3060
acacatatat cctgttctct gagagtacca tgggtgttct ttttactcca tttctactga caaatcatga taagggcaca 3180
ttctgaactc aatgttttgc ttttactccc tttctactga ctcaatccca aatggaggcc tacaagaac 3240
aaagctgtac agattttttt tttttaacca gtttttaaga gcaaatctctg tccccctca 3300
atcgtaataa cacatggaag caaaccttgg ctaattgaaga aagttcttca ccatagtgtt tgttttaact 3360
ctcccccaag tgacaagata ctaattgaaga taggggtcatc atctctacat tccttaggat 3420
aaactcattg gagtctagtt ccaaatttgg agtaccaaac agtagtctct gaagttcccc 3480
ttctctccct atcaagctgg ccagatatac tgatccgccac tgattttcat ttatcagggt 3540
catttccttc agtaccagtc tataagctac cctctctggc ccacatatct atctcttgcc 3600
gtcttaatac gaatcagcca ccaagcaagc aaagccacat aaactcaagc aagaaatag 3660
ttccccatg aacttcagcc tgtccacaca aaagccacat aaactcaagc aagaaatag 3660
ttcagccaaa acatgattat agtggcagct gaccaatccc ccatcccaa ttgaccatt 3720
agatgtacca actcacctta aattagcatg ttccaatcca gtcggcattg cctgaatata 3780
gtagcatcat acctatagtt ggtcttagat aagaaatgaa ctacttgata tagcaaagtc 3840
ctttggcttc gtaaataaac ctgaggtttt gtacttactt tccccatagg aagacagacc 3900
ataggcaaac tctgttttgg gatctcaact ccatcacctt tgtttcaata tttttttct 3960
ctcttgaaca aaactgagat aatttagaaa acaggtgctt aattgcaata aaattactat 4020
gaagtatatt aaaaatcacg acattgtaaa atctcacttt agatcatcaa agaaaaccat 4080
tgttactatc tcctttgagc ttaggaaaat gtacaagaga acaaattaaa attgaaaaat 4140
tgatttctact tagaaaaact tctaggaaca ggggtgaacca ctgattttta tttgcctaata 4200
tatcttatga caagtatcaa attaagatga cacttaaaga tccttagcat taacttaatg 4260
atggagaaga gtgctcaata gacagttccc agtaaggtaa tgagatgcca ttttcagaga 4320
cattctaaga agatattttg attcattaata acattaaata aaaagccctc ctcagattgg 4380
aaccocccaaa tcgatggagc cacattaata atacttttca tgcctcactt tgacatgaca 4440
gcattcgatt tttttaaaga tctttaatac ttcccatgag tactaaagat tgtaatgagt 4500
taccttatcc ttagaagtag aatgtttgct ttcttcttct tggaaatggg cctccaaaaa 4560
gtccacttgt accagtgaac agaagtcact tgtatagtga ccaagtacac ataaaaatac 4620
gattataaaa atattgtaat aaaccacttc ctcatattgat acaggtatta agctgaatcc 4680
tcactaatc acttttgaac agttcttaat gaacagtttt attcttattc catgaacagc 4740
tcctttaata caatttctct ggtatccaac tttaaataccc gaatttttgt ccaccatgg 4800
tagttatttg ccatatgaat gtattcttgt ttctaccaat attctaggca tgagaatacc 4860
ttaaactaga gttggagatt ttctctctct ttctctctct ttacgccccat tttcttacc 4920
acagcagcaa atgacaacgt gtctgtccag gtctgtcccc ctgctcatcc caggatgcca 4980
ctcacatttt tttcttcttg ttaccttgac cagcgtgtac agtaacatcc aagagcccat 5040
tctacagtgg gtggttttgg tctttttata actttttctc aaagtcaactg atgtttgttc 5100
ctgttaaatg tatagcattg taatgagagc ccatcaaatc ctgagtgtca gtttgttgc 5160
cctattgtag atgaaatag gatgtagcaa aacctagta aattctgaat gcttttccac 5220
gtagacttat ctggaatgtg aacacaactc tttggttaat agtaaagtgt taactgtagt 5280
cctgagtagg tgcatttctg totgtctcaa taaattttac tttgtctgca aaaaaaaaaa 5340
aaaaggg 5347

```

<210> 100
<211> 2463
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1041140.4

```

<400> 100
gtgctatgtc cctagagctc ataggatgct cctcacatct gtaatctcat ccacaaggtc 60
tactgtccc attctatgtg atatgtggat cccatccat gagccggggc aagcatcctg 120
ggatggctga gggcagactc tggcagatgc ctcagatgct cagccacaga 180
cctttgaggg agtaaagggg gcagaccac ccaccttgc tccaggtctt ttccttctg 240

```

```

gtcctgttct atggtggggc tcccttgcca gacttcagac tgagaagtca gatgaagttt 300
caagaaaagg aaattggtgg gtgacagaga tgggtggagg ggctggggaa aggctgttta 360
cttcctcctg tctagtcggt ttggtcccct taggggtccg gatactcttg gtgacttgtc 420
cactccagtg tgggcatcat gtggcaatg ctccctccaa ctgctctgct acttctagtt 480
tcagctgggg atgcggactg aagatctccc aaaggctgtg gtgttccctgg agcctcaatg 540
gtacagcgtg cttgagaagg acagtgtgac tctgaagtgc cagggagcct actccctga 600
ggacaattcc acacagtggg ttcacaatga gagcctcatc tcaagccagg cctcgagcta 660
cttcattgac gctgccacag tcaacgacag tggagagtac aggtgccaga caaacctctc 720
caccctcagt gaccggtgc agctagaagt ccatatcggc tggctgttgc tccaggcccc 780
tcggtgggtg ttcaaggagg aagacctat tcacctgagg tgtcacagct ggaagaacac 840
tgctctgcat aaggtcacat atttacagaa tggcaaagac aggaagtatt ttcatacata 900
ttctgacttc cacattccaa aagccacact caaagatagc ggctcctact tctgcagggg 960
gcttgttggg agtaaaaaatg tgtcttcaga gactgtgaac atcaccatca ctcaaggttt 1020
ggcagtgtca accatctcat cattctctcc acctgggtac caagtctctt tctgcttggg 1080
gatggtactc ctttttgtag tggacacagg actatatttc tctgtgaaga caaacatttg 1140
aagctcaaca agagactgga aggaccataa acttaaatgg agaaaggacc ctcaagacaa 1200
atgaccccca tcccattgga gtaataagag cagtggcagc agcatctctg aacatttctc 1260
tggatttgca acccatcat cctcaggcct ctctacaagc agcaggaaac atagaactca 1320
gagccagatc ctttatccaa ctctcaatct ttccttgggtc tccagtggaa gggaaaagcc 1380
catgatcttc aagcagggaa gccccagtga gtagctgcat tcctagaaat tgaagtttca 1440
gagctacaca aacacttttt ctgtcccacac cattccctca cagtaaaaca acaatacagg 1500
ctagggatgg taatccttta aacatacaaaa aattgctcgt attataaatt acccagttta 1560
gaggggaaaa aaagaaaata attattccta aacaaatgga taagtagaat taatggttga 1620
ggcaggaccc tacagagtgt ggggaactgct ggggatctag agaattcagt gggaccaatg 1680
aaagcatggc tgagaaatag cagggttagtc caggatagtc taagggaggt gttcccatct 1740
gagccagagc ataagggtgt ctctcagaa cattagccgt agtggaaatc acaggaaatc 1800
atgagggtga cgtagaattg agtcttccag gggactctat cagaactgga ccatttccaa 1860
gtatataacg atgagccctc taatgctagg agtagcaaat ggtcctagga aggggactga 1920
ggattggggg gggggtgggg tggaaaagaa agtacagaac aaacctgtg tcaactgtccc 1980
aagttaagct aagtgaacag aactatctca gcatacagaat gagaatgaga aagcctgaga 2040
agaaagaacc agaccacaag acacagggaag gaaagcgagc gaggtgaaaa tgctttcttg 2100
gccagggtag taagaattag aggttaatgc agggactgta aaaccacott ttctgcttca 2160
atgtctagtt cctgtatagc tttgttccatt gcatttatta aacaaatgtt gtataacca 2220
tactaaatgt actactgagc ttcactgagt tacgctgtga aactttcaaa tcttcttca 2280
tgtcagttcc aatgaggtgg ggaatgtgtt gacaattgtt gcttatgaaa gaaagcttta 2340
gctgtctctg ttttgtaagc tttcagtgca acatttcttg gttccaataa agcattttac 2400
aagatcttgc atgctactct tagatagaag atggcaaaac catggttaata aaatatgaat 2460
gat 2463

```

<210> 101
 <211> 1832
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 408246.2

```

<400> 101
ctcatccagt tcctttgctg tctcttctct cagcacatgc caaagctgtt cctcacggcc 60
tgtgagacaa gagcatcttg gatgtaggac aatggaagag ttagatgcct tattggagga 120
actggaacgc tccacccttc aggacagtga tgaatatcc aaccagctc ctcttcccct 180
ggatcagcat tccagaaagg agactaacct tgatgagact tcggagatcc tttctattca 240
ggataacaca agtcccttgc cggcgagct cgtgtatact accaatatcc aggagctcaa 300
tgtctacagt gaagcccaag agccaaagga atcaccacca ccttctaaaa cgtcagcagc 360
tgctcagttg gatgagctca tggctcacct gactgagatg caggccaagg ttgcagttag 420
agcagatgct ggcaagaagc acttaccaga caagcaggat cacaaggcct ccttggaact 480
aatgcttggg ggtctcgagc aggaattgca ggaccttggc attgccacag tgccaaggg 540
ccattgtgca tcttgccaga aaccgattgc tgggaagggtg atccatgctc tagggcaatc 600
atggcatcct gagcattttg tctgtactca ttgcaaagaa gagattggct ccagtcctct 660
ctttgagcgg agtggttgg cctactgcc caacgactac caccaacttt tttctccag 720
ctgtgcttac tgcgtgctc ccatcctggg ataaagtgt gacagcaatg aaccagacct 780
ggcaccaga gcacttctc tgcctcact gcggagaggt gtttggtgca gaaggcttct 840
atgagaagga caagaagcca tattgccgaa aggtttctt agccatgttc tcaccaagt 900
gtgtggctg caatgcacca gtgttggaat actaccttc agccatggac actgtctggc 960
accagagtgc ctttgtttgt ggggactgct ttctactggc tcttcttctg 1020
aactggatgg acgtccatc tgtgagctcc attaccatca ccgccgggga acgctctgcc 1080

```

atgggtgtgg	gcagcccatc	actggccgtt	gtatcagtgc	catgggggtac	aagttccatc	1140
ctgagcactt	tgtgtgtgct	ttctgcctga	cacagttgtc	gaagggcatt	ttcaggggagc	1200
agaatgacaa	gacctattgt	caaccttgct	tcaataagct	cttcccactg	taatgccaac	1260
tgatccatag	cctcttcaga	ttccttatag	aattttaaacc	aagagaggag	aggaaagggt	1320
aaattttctg	ttactgaacct	tctgtctaatt	agtcttatag	aaaaaggaaa	ggtgatgagc	1380
aaataaagga	acttctagac	tttacatgac	taggctgata	atcttatttt	ttaggcttct	1440
atacagttaa	ttttataaat	tctctttctc	cctctcttct	ccaatcaagc	acttggagtt	1500
agatctagggt	ccttctatct	cgtccctcta	cagatgtatt	ttccacttgc	ataattcatg	1560
ccaacactgg	ttttcttagg	tttctccatt	ttcacctcta	gtgatggccc	tactcatatc	1620
ttctctaatt	tggctctgat	acttgtttct	tttcacgttt	tcccatattgc	cctgtggctc	1680
actgtcttac	aatcactgct	gtggaatcat	gataccactt	ttagctcttt	gcactctcct	1740
tcagtgtatt	tttgtttttc	aagaggaagt	agatttttaac	tggacaactt	tgagtactga	1800
catcattgat	aaataaactg	gcttgtgggt	tc			1832

<210> 102

<211> 3155

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 902740.4

<400> 102

gaccggggcg	ggtctgtagg	agaccggagc	ggcgagacag	cggtgacagg	agcagcggcc	60
gggagccctt	agggaggcag	acagagcctg	cagccaatgc	cccaggagcc	ctcggttcca	120
accaaactgat	gccccgtgct	ccactggccc	acgccatgca	gccccagtc	gttctgcaca	180
gcggctactt	ccaccacta	cttcgggccc	ggcagacagc	caccaccacc	ctcaatgcct	240
ccaacctcat	ctaccccatc	tttgtcacgg	atgttcctga	tgacatacac	cctatcacca	300
gctcccagg	agtggccagg	tatgggtgtga	agcggctgga	agagatgctg	aggcccttgg	360
tggaagagg	ctacgctgt	gtcttgatct	ttggcgctcc	cagcagagtt	cccaaggacg	420
agcggggttc	cgcagctgac	tccgaggagt	ccccagctat	tgaggcaatc	catctgttga	480
ggaagacctt	ccccaaacctc	ctgggtggcct	gtgatgtctg	cctgtgtccc	tacacctccc	540
atggctactg	cgggctcctg	agtgaaaacg	gagcattccg	ggctgaggag	agccgccagc	600
ggctaggctga	ggtggcattg	gcgtatgcc	aggcaggatg	tcagggtgta	gccccgtcgg	660
acatgatgga	tggaacgctg	gaagccatca	aagaggccct	gatggcacat	ggacttggga	720
acagggtatc	ggtgatgagc	tacagtgcc	aatgtgcttc	ctgtttctat	ggccctttcc	780
gggatgcagc	taagtcaagc	ccagcttttg	gggaccgccg	ctgctaccag	ctgccccctg	840
gagcacgagg	cctgctctc	cgcagctgtg	acgggagatg	acgggaagga	gctgacatgc	900
tcattggtgaa	gccggggaatg	ccctacctgg	acatcgtgcg	ggaggtaaaag	gacaagcacc	960
ctgacctccc	tctgcgcgtg	taccacgtct	ctggagagtt	tgccatgctg	tggcatggag	1020
cccaggcccg	ggcatttgat	ctcaaggctg	cctgactgga	ggccatgact	gccttcgcga	1080
gagcaggtgc	tgacatcatc	atcacctact	acacaccgca	gctgctgcag	tggtgaagga	1140
aggaatgatg	gagacagtgc	caggcccaag	aactagaact	ttaaaaagtt	cccggggcct	1200
cagacaagtg	aaaaccaaag	taaattgctgc	ttttagaact	gtgccctcat	gccctcttcc	1260
tgctcacatg	ctagcggggc	ccagcagccc	tgggtgtgtt	tgccagcatg	ctaactcttg	1320
taactcgcag	ctgcatccta	tgagctctcc	caagcttccc	cgccccctcc	ctgggtcagc	1380
cgtgaggccc	acctttgcc	ccctcagctc	tttctcttgg	tgtggcttca	gcttgaaagc	1440
aaactggagt	cgggggcaca	gcctttgggg	cctggctggg	agaggggtctt	ggagcattag	1500
gggaagaaga	gagcagtggg	atcttggggc	ctgagaagcc	ttggaacgct	tctggcagca	1560
gagctgggtg	tggaatgag	gcctagatcg	atatccctgg	gttagagttg	aaatttgccg	1620
caattccact	ggaagccatt	tcccacgagg	ccagaggttg	ccaggctgcc	tgaggtctcc	1680
tattctactc	tgaaccataa	accagagaaa	gaattactca	ttaaccagca	taaatactgc	1740
ctgaggatca	aaactcagag	gcaaagaggg	agttcctgac	tgctagaggt	gccaccacca	1800
caaacacttt	ttattcagga	gatacttttt	gagaatctct	gctctgttcc	taggttcagt	1860
gctgggtcct	gggaatacac	caggacagac	ctcagcttat	ctcttcatag	aaattatata	1920
aagagaattg	gggagacagc	taagaagaaa	acaaagaaat	aaagcagtta	caaattgtga	1980
taagtgcctt	gaaggaaaga	aggggtctga	gacaacaaca	gggaaggggc	ctctcttgaa	2040
acagttagttg	ggaaggaggc	agacatgcac	cagtgatgtg	gtgacagggtg	ctctgaagga	2100
ggtcaccagg	acctgacctc	tttgaaggat	cagaaaatac	ttccctgaag	gactgacatt	2160
tgagctctaga	cctgaagggt	gagccatcaa	gctaagacaa	ttggggaaga	gcattccagg	2220
gagaggagg	agttgtgcaa	agggcctggg	gctccttcta	gctggaggaa	tgcaaggcta	2280
gctgtgtctg	agcactgaga	ggatggcctg	aactgagtgg	agagagacag	accaggacca	2340
aaccatgcag	aggtcaaggg	ccacattcac	cttttcagag	tgactcaatc	aaattttag	2400
tttgaaaaag	tattttaaca	gctctgcggc	aaagtgcaaa	tgaaaagtct	tgatggcatg	2460
gactggagcg	gggacagtg	ggatggagaa	aggggaatgg	attgtggatg	tgtttagaag	2520
gtagattcga	tgtgaaggat	gaatctggct	tgaccttctg	ggtggtgtat	gggccattta	2580

ctgagatggg	gcagcctgga	agaggaacag	aagcagggtc	ggggtggagg	gagaatacta	2640
aacttagctt	gagacatttt	gcaataagga	agctatatct	agagtgcctt	tgtgactcac	2700
ctaaggccac	tcaacaagtt	tgtggcagaa	ctggattaga	actgcacaga	aaacagccaa	2760
gctgggattt	gaacccatgt	agtccaactc	caaggcctct	gccctaacc	actgtgccat	2820
accacctccc	aataatcaac	agcaaaatta	taggtctaac	aatgttttat	agacacccct	2880
ccatttatgt	gatgggtttg	catcctgata	aacctatcat	aagttgaaaa	tatgatcata	2940
agttgaaaat	atgatcataa	gtcaaaaatg	tatttaatat	acctaacct	ccaaacatca	3000
tagcttagcc	tagcctgcct	taaacatgct	cagaacactt	acattagcct	acagtgggca	3060
aaactatcca	acacaaaatc	tatattgtaa	taaagttata	aagaatttta	accagaggcc	3120
acgttttact	tgtggcatcg	aaaccacctt	tgcatt			3155

<210> 103

<211> 3045

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 475486.9

<220>

<221> unsure

<222> 2143, 2186

<223> a, t, c, g, or other

<400> 103

ggcgcttctg	ggcgcgcgcg	acgtcagttt	gagttctgtg	ttctccccgc	ccgtgtcccg	60
cccgaccgcg	gcccgcgatg	ctggcgctgc	gctggggctc	ccgctggctc	ggcctgctct	120
ccgtcccgcg	ctccgtgcgg	ctgcgcctcc	ccgcgggccc	cgctgcagc	aagggtcccg	180
gcgaccgcgt	ctcttctctc	tcctccggga	acccgctcgt	gtacctggac	gtggacgcca	240
acgggaagcc	gctcgcccg	gtgggtctgg	agctgaaggc	agatgtcgtc	ccaaagacag	300
ctgagaactt	cagagccctg	tgcactgggt	agaagggctt	cggtacaaa	ggctccacct	360
tccacagggt	gatcccttcc	ttcatgtgcc	aggcgggcga	cttcaccaac	cacaatggca	420
caggcgggaa	gtccatctac	ggaagccgct	ttcctgacga	gaactttaca	ctgaagcacg	480
tggggcaagg	gtctcctgtc	atggctaattg	ctgggtcctaa	caccaacggc	tcccagttct	540
tcactgtcac	cataaagaca	gactgggttg	atggcaagca	tgttgtgttc	ggtcacgtca	600
aagagggcat	ggacgtcgtg	aagaaaatag	aatctttcgg	ctctaagagt	gggaggacat	660
ccaagaagat	tgtcatcaca	gactgtggcc	agttgagcta	atctgtggcc	agggtgctgg	720
catggtggca	gctgcaaaatg	tcctgcacc	cagggtggccg	cgttgggctg	tcagccaagg	780
tgccctgaaac	gatacgtgtg	cccactccac	tgtcacagtg	tgccctgagga	aggctgctag	840
ggatgttaga	cctcgcccg	gaccaccac	attgcttctc	aatacccacc	cttctctacg	900
acctcatttc	tgggcatctt	tgtggacatg	atgtcaccca	ccccttgtca	agcattgcct	960
gtgattgccc	agcccagatt	catctgtgcc	ttggacatgg	tgatgggtgat	gggttgccat	1020
ccaagtgaaa	gtcttttctc	tgaccaaggc	ggacagtcag	ttttgcaaaa	ggactctaat	1080
acctgtttta	tattgtcttc	ctaattggga	taatttaatt	aacaagattg	actagaagtg	1140
aaactgcaac	actaacttcc	ccatgctgtg	gtgtgacctg	agtgtgtgac	acaggccaca	1200
gacccagag	cctggctttt	gaaacacaac	tcagggtctt	tgtgaagggt	cccccgctga	1260
gatctttctc	cttggttact	gtgaagcctg	tgggtttgct	gctgtcgttt	ttgaggaggg	1320
cccatggggg	taggagcagt	tgaacctggg	aacaaacctc	acttgagctg	tgcctagaca	1380
atgtgaatc	ctgtgttctg	aacagaagtg	gctgtgaagc	tcctgtgtct	cggagggaag	1440
catttctctg	taggctttga	tttttctgtg	tgtaaagaaa	attcaatcta	ctcatgatgt	1500
gttatgcata	aaacatttct	ggaacatgga	tttgtgttca	ccttaaattg	gaaaaataat	1560
cctattttct	atggaagact	ggtacctggt	ttctggaaga	gggtctctgt	acttgagct	1620
gatctttact	gagctcgccg	tggcagatgc	catgctcagg	acgttcatgt	ggatgggttc	1680
atgtcatcgt	gctggcaact	tgtcctccct	gccttagaga	tgaggctcag	acaaacgacc	1740
ttagcaccca	tagcctatgc	catgagcact	ggctccaccc	tgaatcccag	ctcctccctc	1800
tagtgacccc	aagtctgttt	ccctcagctg	cataaggagg	cgatatagtt	tgaatatattg	1860
tccccagcca	aatctcatgt	tgaatgttaa	ttcccacgtg	ttgaagggtg	ggcctgggtg	1920
ggaagtgatt	agatcatggg	gacgggtatt	tcattggctg	gtgctgtttt	cttgatgggtg	1980
aatattgcaa	gatacgggtc	tttaaaattg	tgtggcactc	ccccctgccc	ccttcttctg	2040
cctgacttca	ccattgtgac	tgtctgatcc	cccttcacct	tttgccatgg	tcataagctt	2100
cctgaggcct	ccccagaagc	caagttagtg	caagcattat	gcntctgtaa	agcctgcagg	2160
accatggatc	caattaaatc	tcttttcttt	atacattacc	tggctcctaa	tatgtatagc	2220
aatgcaagaa	tggcctaata	tcattaggct	tagaattttg	catatgtaat	ttcatctact	2280
atgtatatcc	tgactcaaaa	accaagaata	gaaaagcagt	tcaagtaaaa	ccacagctgc	2340
atttttgcct	gcctctagggt	atgtgagcct	caaagttgga	agaaattaa	caacatgctt	2400
tggaatctat	ggtgatctat	agaaaggcaa	agtttctgga	ctcaccttga	ctgatggaaa	2460

gacagactgc	ctgccaggac	actaccctgc	tgtaccagct	cttaagtata	ataaagatct	2520
cattttttac	tgtcaatgca	agccacatct	tcttattagg	aaaatgtgaa	tgaacaaaag	2580
tgctcttcaa	gagcaaaccc	tgaattatac	tttgggttat	tctctgttcc	tcaaaaggat	2640
tttgcatcta	actgatagtc	tccaaattgt	aatgacagta	tatagatagc	ttgggtgtaga	2700
catacaggtc	aatacaaatg	gagaaaaggc	aatttgccat	tgaagaatat	gtttgcttta	2760
agtaaagatc	aataactata	gaaagctata	catatctaga	cttccaaaaa	cagatgggaa	2820
taaactactc	agcaatcaga	atattcgaag	atggcactct	gttcacttcc	agagaaaaata	2880
gttcaaaact	gtatctcaaa	gtggatataa	gctattgtac	tagaattagt	ccctgtgtga	2940
gcatttggca	ttataaaaata	agatgttccc	aatgaaaaga	tcactgggtat	gtagataata	3000
aaatgtgaaa	ataaaaatct	aaaaataaaa	caaaaattat	gtgat		3045

<210> 104

<211> 1746

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 233778.9

<400> 104

ctcaggcctg	acgggtccgag	tggagctgcg	ggacagcccg	aacctccagg	tcagccccgc	60
ggccctccat	ggcgctggtg	cgcgacttcc	gtctgtgtgc	tgctgactgc	ctggcactgc	120
cgtccgggcc	tccggctgcc	cgtggcgccc	gcaggcggca	ggaatcctcc	tccggcgata	180
ggacagtttt	ggcatgtgac	tgacttacac	ttagacccta	cttaccacat	cacagatgac	240
cacacaaaag	tgtgtgtctc	atctaaaggt	gcaaatgcct	ccaaccctgg	cccttttggg	300
gatgttctgt	gtgattctcc	atatcaactt	attttgtcag	catttgattt	tattaaaaat	360
tctggacaag	aagcatcttt	catgatattg	acaggggata	gcccacctca	tgttctctgta	420
cctgaactct	caacagacac	tgttataaat	gtgatcacta	atatgacaac	caccatccag	480
agtctctttc	caaatctcca	ggttttccct	gcgctgggta	atcatgacta	ttggccacag	540
gatcaactgc	ctgtagtcac	cagtaaagtg	tacaatgcag	tagcaaacct	ctggaaaacca	600
tggtagatg	aagaagctat	tagtacttta	aggaaagggtg	gtttttattc	acagaaagtt	660
acaactaatc	caaaccttag	gatcatcagt	ctaaacacaa	acttgtacta	cggcccaaat	720
ataatgacac	tgaacaagac	tgaccagccc	aaccagtttg	aatggctaga	aagtacattg	780
aacaactctc	agcagaataa	ggagaagggtg	tatatcatag	cacatgttcc	agtgggggat	840
ctgccatctt	cacagaacat	cacagcaatg	agagaatact	ataatgagaa	attgatagat	900
atttttcaaa	aatacagtga	tgtcattgca	ggacaatttt	atggacacac	tcacagagac	960
agcattatgg	ttctttcaga	taaaaaagga	agtccagtaa	attctttgtt	tgtggctcct	1020
gctgtttacac	cagtgaagac	tggttttagaa	aaacagacca	acaatcctgg	tatcagactg	1080
ttctagtatg	atcctcgtga	ttataaatta	ttggatatgt	tgaggtatta	cttgaatctg	1140
acagaggcga	atctaaaggg	agagtccatc	tggagctggg	agtatactct	gaccagacc	1200
tacgacattg	aagatttgca	gccggaaagt	ttatatggat	tagctaaaca	atttacaatc	1260
ctagacagta	agcagtttat	aaaatactac	aattacttct	ttgtgagtta	tgacagcagt	1320
gtaacatgtg	ataagacatg	taaggccttt	cagattttgtg	caattatgaa	tcttgataat	1380
atttcctatg	cagattgcct	caaacagctt	tatataaagc	acaattacta	gtatttcaca	1440
gtttttgcta	atagaaaatg	ctgattctga	ttctgagatc	aatttgtggg	aattttacat	1500
aaatctttgt	taattactga	gtgggcaagt	agacttcctg	tctttgcttt	cttttttttt	1560
tctttttgat	gccttaatgt	agatatcttt	atcattctga	attgtattat	atattttaag	1620
tgctcattaa	tagaatgatg	gatgtaaatt	ggatgtaaat	attcagttta	tataattata	1680
tctaatttgt	acccttgttg	aaattgtcat	ttatacaata	aagcgaattc	tttatctcta	1740
aatatg						1746

<210> 105

<211> 4760

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 350392.3

<400> 105

catttatgga	cagattgccc	ggccccgagcc	gagactcagc	cagaggagta	cggattaagt	60
ggccgaagaa	agaggagtga	ggcaggggag	cgaggcggac	gctccgagcg	catcgactc	120
acctggggcc	gcggcgagcg	gcgagtagca	gtggactcct	gccctccgca	gcagcgccc	180
cgcctgctaa	gtcgccgccc	tctcgccctc	acctagcacc	gccaatcccg	cctggatgga	240
gtccccctctg	ggttccccatt	ggctcctgtg	agtgcctggg	tgctggggagc	ctgttttttg	300

cgaggggaac	caacttttga	agttcgccca	gaagactgcg	ttccagcccc	agttccccgg	360
cagcgggacc	cggcgaagac	gcgaccgcgg	cgcgagtcac	catgggaagc	aaaggtgtct	420
accagtacca	ctggcaaaagc	cacaatgtca	agcacagtgg	tgtggacgac	atggtgctac	480
tgtccaagat	cacagagaac	tccatcgtgg	agaatctgaa	gaagagatac	atggatgact	540
acatttttac	atatatagga	tctgtattaa	tctcagtcac	ccctttcaag	cagatgccat	600
atthtgggga	aaaggaaatt	gaaatgtacc	aaggagcggc	acagtatgaa	aaccaccac	660
atatctatgc	ccttgagat	aatatgtaca	gaaacatgat	cattgacaga	gagaaccagt	720
gcgtcattat	cagtggtgaa	agtgggtgctg	gaaaaacagt	ggctgccaaa	tatatcatga	780
gctacatctc	cagagtgtct	ggaggaggga	ccaaagtcca	gcagtgaag	gacattatcc	840
tgcagtccaa	cccgtgctg	gaggccttcg	ggaacgcca	gaccgtccgg	aacaacaact	900
ccagccgatt	tggaaaatac	tttgaaatcc	agttcagtc	agggtgggaa	ccagatggtg	960
gaaagatctc	caacttcctt	ctggaaaaat	ctagggtggt	gatgaggaac	ccaggagagc	1020
ggagtthtca	tctgttttac	cagctcatcg	agggcgccct	tgacagagcag	aaacacagcc	1080
ttggcatcac	cagcatggga	tattattact	acctgagcct	ctcgggctca	tacaaggttg	1140
atgacattga	cgacaggcgg	gagtttcagg	aaactctgca	cgccatgaat	gtgattggga	1200
tctttgcaga	agagcaaacg	ctgggtgttc	agatagtggc	gggtattctc	cacctgggaa	1260
acatcagctt	caaagaagtt	ggcaactacg	cggtctgtga	gagtgaagag	tttttagctt	1320
ttcctgcata	tctgctagg	ataaaccagg	acgggttgaa	agaaaagcta	acaagccggc	1380
agatggatag	caagtgggga	ggcaaatccg	aatccatcca	cgtgaccctc	aacgtagagc	1440
aggcctgtta	caccgggat	gcgctcgcca	aggccctgca	cgcccggttc	tttgatttct	1500
tggtagattc	catcaataaa	gccatggaga	aagaccatga	agaatacaac	attggcgtcc	1560
tagacatcta	tggtttgaa	aaattggcct	tgaaactgac	tgaaactgac	tgatcaatt	1620
ttgttaata	aaaactgcag	cagattttta	ttgaaactgac	attaaaggca	gaacaggaag	1680
aatatgttca	agagggaata	agatggacac	ccattgagta	ctttaataat	aaaatcgat	1740
gtgacctcat	agagaacaaa	gtgaaccctc	ctggcatcat	gagcatcctg	gatgacgtgt	1800
gcgcacgat	gcagtgcgtg	ggtgaggggg	cagatcagac	gctgctccag	aaacttcaga	1860
tgcagattgg	gagtcagag	cacttcaaca	gttggaaacca	aggcttcctc	attcatcatt	1920
atgctgggaa	ggtatcctat	gacatggatg	gcttttgtga	aaggaaaccg	gatgtgcttt	1980
ttatggatct	catcgagctt	atgcagagca	gcgagctgcc	tttcataaag	tctttatttc	2040
cggaaaatct	gcaggctgac	aagaaagggc	gccaactac	tgccggaagc	aaaataaaga	2100
aacaagccaa	tgacctgtg	agcaccctga	tgaaatgtac	gccccactac	attcgctgca	2160
tcaagccaaa	cgaaaccaag	aagcccagag	actgggagga	aagcagggtg	aagcatcaag	2220
tcgaatattt	gggtctgaaa	gagaacattc	gagtgagaag	agctggctat	gcctatcggc	2280
gcattctcca	aaaattccta	cagaggatg	ccattctgac	caaagccacc	tggccttctt	2340
ggcaggcgaga	ggagaagcaa	ggcgtcctgc	acctgtgca	gtcggtcac	atggacagcg	2400
accagttcca	gctggggagg	agtaaaagt	tcatacaagc	cccagagct	ctatttctt	2460
tagaagagat	gagagagaga	aagtatgatg	ggtatgctcg	agtgatacag	aaatcatgga	2520
ggaaattcgt	ggcccgggaag	aaatacgttc	aaatgagaga	agaagcctca	gacctcttat	2580
tgaaacaagaa	ggagagaagg	agaaacagta	ttaacaggaa	ctttataggg	gattatattg	2640
ggatggaaga	gcaccagaa	ctccagcagt	tcgtgggcaa	gagggagaag	attgatttgc	2700
cagacacagt	caccaagtat	gacaggaggt	tcaagggtgt	aaagcgagac	ctgctcctta	2760
ccccaaagt	cttgtactta	atcggaacg	aaaaagtc	acagggccca	gacaagggcc	2820
tggtgaaaga	agtcctgaag	cggaaaatcg	agatagaacg	gatcttgtct	gtgtccctca	2880
gtactatgca	ggatgacatt	tttattcttc	atgagcaaga	gtatgacagt	ttgcttgaat	2940
ctgtcttcaa	aactgaattc	ctaagcctct	tagcaaacg	ttacgaggag	aagaccaga	3000
agcaactacc	tctgaaatc	agcaatacgc	ttgaactgaa	gttgaaaaag	gaaaactggg	3060
gcccctggag	tgacgggggc	tcccggcaag	tgcagttcca	caaaggggtt	ggggacctgg	3120
ctgtcctcaa	gccagtaac	aaagtgtcgc	aggtcagcat	cggacctgga	ctgccaaga	3180
actcccgctc	taccagaagg	aacactaccc	aaaatacagg	ttattccagt	gggactcaaa	3240
atgccaacta	cccagtgaag	gctgccccct	ctccccagc	ataccatcag	aacggagtca	3300
tcagaaacca	gtatgtgcca	tatccccatg	ctcctggaag	ccagaggtcc	aatcagaaaa	3360
gctgttacac	ctcatggcc	cgcccgccct	tgctctggca	gcagtctacc	agttcagacc	3420
gagtgtcaca	gcgcgcagag	agcctggatt	tcccaagggt	cccggaaccg	ggagctgcag	3480
gggtcaggag	acaacaacc	agtcggcctc	ccccagcagg	gggcagaccc	aagccccagc	3540
ccaagcccaa	gcctcagggtg	ccacagtgc	aggctttgta	tgccatgac	gctcaggaca	3600
cagacgaact	cagctttaa	gccaatgaca	ttattgat	tatcaaaaga	gatccttctg	3660
gctgggtggac	gggtcgacta	cgaggcaagc	agggcctgtt	cccaacaac	tatgtgacca	3720
agatctgagg	tgcccgtgac	tctgacacat	ggggcagagg	agctccaggc	acagaccagg	3780
ggaggggata	tttaggggct	ccccttacaa	tccacaatga	gcaattgctt	ctccaaggcc	3840
tggagctatt	ctggtacctt	ccccatggag	gacactgaaa	aggctgggtt	ggggacaggg	3900
agtatcactc	ctaaaagggt	agcctcttca	gtgagaggac	taggaaccca	ggaggacaaa	3960
accaccatgc	attaagattt	tttaaacctg	agcaccctgc	gtgagaggac	aagtgaggtc	4020
tgctcagacc	ttgtaggctt	ctatcaaaac	ttagttgaag	ttgctacca	ggcctagaga	4080
atggctgtag	gtggccgctg	acaagtgcct	ctgccacctt	agcacatttc	tttcatctct	4140
ctgtgccata	ccgatagac	acattcctct	ctgccacctt	ccttcaggga	ggaccggccc	4200
tctgcagact	gggtcttagc	tgagcaggca	tttcccatgt	acgtgccaag	ggtaagctgg	4260
cctgctgagc	ccagggcgac	agagggggc	tggtttacac	tttgccggga	ccatcagggc	4320

```

cgccaagcag gtcagggggc tgggggctgg gggtctgggt gctggctttg ctttctctgg 4380
gtcttcaatt agaattgtgc tggcccatat tggtttgtgt taaatgctg tacttactac 4440
aagaaggatc ttttttcaag ctgtacattt ataaaaacag atcatatact gtatatataa 4500
aaatcttgag atggttagaa catgtatgaa tgtactaagt agtattccac tgtactcatt 4560
cataaggtag gttttcttac aaaactcaca ccaggctact aaagatgtgc tctgcttttt 4620
tccaactacg gagtgtcact gctttctagc tcagtcctcg cagactcttc tcaactcttt 4680
ccctatagga aacttactcc gcgtcctgcc cccacctcct aaataaataa aggaatcggc 4740
gaacaccttc ttcttttatg

```

<210> 106

<211> 4251

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 458045.4

<400> 106

```

gcggctccgg gtcgggtggc ccaggacagg gaagagcggg cgctatgggg agccggacgc 60
cagagtcccc tctccacgcc gtgcagctgc gctggggccc ccggcgccga ccccgctgc 120
tgccgctgct gttgctgctc gtgccgcgcc caccagggt cggggggctt caacttagac 180
gcggaggccc cagcagtaact ctgggggccc ccgggctcct tcttcggatt ctcagtggag 240
ttttaccggc cgggaacaga cgggggtcagt gtgctggtgg gagcacccaa ggctaatacc 300
agccagccag gagtgtgca ggggtggtgct gtctacctct gtcttgggg tgccagcccc 360
acacagtgca cccccattga atttgacagc aaaggctctc ggctcctgga gtctcactg 420
tccagctcag agggagagga gcctgtggag tacaagtcct tgcagtgggt cggggcaaca 480
gttcgagccc atggctcctc catcttggca tgcgtccac tgtacagctg gcgcacagag 540
aaggagccac tgagcgcccc cgtgggcacc tgctacctct ccacagataa cttcaccgca 600
attctggagt atgcacctg ccgctcagat ttcagctggg cagcaggaca ggggtactgc 660
caaggaggct tcagtgccga gttcaccaag actggccgtg tggttttagg tggaccagga 720
agctatttct ggcaaggcca gatcctgtct gccactcagg agcagattgc agaactttat 780
taccocgagt acctgatcaa cctggttcag gggcagctgc agactcgcca ggccagttcc 840
atctatgatg acagctacct aggatactct gtggctgttg gtgaattcag tggtgatgac 900
acagaagact ttgttgctgg tgtgcccata ggggaacctca ctacggcta tgtaccatc 960
cttaatggct cagacattcg atccctctac aacttctcag gggaacagat ggccctctac 1020
tttggtctatg cagtggccgc cacagacgtc aatggggacg ggctggatga cttgctggtg 1080
ggggcacccc tgctcatgga tcggaccctt gacggggcgc ctcaggagggt gggcagggtc 1140
tacgtctacc tgcagcacc agccggcata gagcccaagc ccaccttac cctcactggc 1200
catgatgagt ttggccgatt tggcagctcc ttgaccccc tgggggacct ggaccaggat 1260
ggctacaatg atgtggccat cggggctccc tttggtgggg agaccagca gggagtagtg 1320
tttgatttcc ctggggggccc aggagggctg ggctctaagc cttcccagggt tctgcagccc 1380
ctgtgggcag ccagccacac ccagacttc tttggctctg cccttcgagg aggccgagac 1440
ctggatggca atggatatcc tgatctgatt gtggggctct ttgggtgtga caaggctgtg 1500
gtatacaggg gccgccccat cgtgtccgct agtgcctccc tcaccatctt ccccgccatg 1560
ttcaacccag aggagcggag ctgcagctta gagggggaacc ctgtggcctg catcaacctt 1620
agcttctgcc tcaatgcttc tggaaaacac gttgtgtact ccattggtt cagagtggaa 1680
cttcagctgg actggcagaa gcagaaggga gggcactggt cctggcctcc cctggcctcc 1740
aggcaggcaa ccctgaccca gacctggct catccagaat ggggctcgag aggattgcag 1800
agagatgaag atctacctca ggaacgagtc agaatttcga gacaaaactc gcctcaggcc 1920
catcgctctc aacttctcct tggaccccc agccccagtg gacagccacg gctcagatct tgctggactg 1980
agccctacat tatcagagca agagccggat gcagctggaa gtgtttgggg agcagaacca 2040
tggagaagac aacatctgtg tgccctgacct cctcacttcc catgcccaga atgtgggtga 2100
tgtgtacctg ggtgacaaga atgccctgaa cctcacttcc ccagaggctg agtactcagg 2160
gggtggcgcc tatgaggctg agcttcgggt caccgcccct cctgagctgt gactactttg ccgtgaacca 2220
actcgtcaga caccaggga acttctccag ccccatgaag gcaggagcca gtctgtgggg 2280
gagccgctg ctggtgtgtg acctgggcaa ctcattctcc ggcactaag aaaaccatcc agtttgactt 2340
tggccttcgg ttacagtc agcaagaatc tcaacaactc gcaaagcgac gtggtttcct ttcggctctc 2400
ccagatcctc caggcccagg tcacctgaa cccagagca tccattagcc aggtgtgct 2460
cgtggagggt ccagtaagc cctgagacca tcatcaacca agggccagc tccatatagt gaccagagtt 2520
tgccaccat gtctatgagc ggtcttgaa ggtcagcagc attaacccaa agggcctgga gttggatccc 2580
ggactcagc actgcaccac caatcacc cccgagggct cccagtgctg gccaagact 2640
acgggactca actgaccac gcaaaaacgg gaagctccaa gccgcagctc tgcttctctg 2700
gagggttccc gaccaccac cccgagggct cccgagggct tccgagctg 2760
ggactcagc tccgaaatg ccaaggtctg cagttgcatt tccgagctg 2820
ccctgcacc aacaagagag ccaaggtctg cagttgcatt tccgagctg 2880

```

ttcttgcagc	gggagcacca	gccatttagc	ctgcagtgtg	aggctgtgta	caaagccctg	2940
aagatgccct	accgaatcct	gcctcggcag	ctgccccaaa	aagagcgtca	ggtggccaca	3000
gctgtgcaat	ggaccaaggc	agaaggcagc	tatggcgctc	caactgtgat	catcatccta	3060
gccatcctgt	ttggcctcct	gctcctaggt	ctactcatct	acatcctcta	caagcttggg	3120
ttcttcaaac	gtcctctccc	atatggcacc	gccatggaaa	aagctcagct	caagcctcca	3180
gccacctctg	atgcttgagt	cctcccaatt	tcagactccc	attcctgaag	aaccagtcct	3240
cccaccctca	ttctactgaa	aaggagggggt	ctgggtactt	cttgaagggt	ctgacggcca	3300
gggagaagct	cctctcccca	gccagagac	atacttgaag	ggccagagcc	aggggggtga	3360
ggagctgggg	atccctcccc	cccatgcact	gtgaaggacc	cttgtttaca	cataccctct	3420
tcattggatgg	gggaactcag	atccagggac	agaggcccca	gcctccctga	agcctttgca	3480
ttttggagag	tttctgaaa	caacttggaa	agataactag	gaaatccatt	cacagtctct	3540
tgggccagac	atgccacaag	gacttctctg	ccagctccaa	cctgcaaaga	tctgtctcca	3600
gccttgccag	agatccaaaa	gaagcccca	gctaagaacc	tggaacttgg	ggagttaaga	3660
cctggcagct	ctggacagcc	ccaccctggt	gggccaacaa	agaacactaa	ctatgcatgg	3720
tgccccagga	ccagctcagg	acagatgcca	cacaaggata	gatgctggcc	cagggccag	3780
agcccagagc	ccagctccaa	ggggaatcag	aactcaaatg	gggccagatc	cagcctgggg	3840
tctggagtgt	atctggaacc	cagactcaga	cattggcacc	taatccaggc	agatccagga	3900
ctatatattg	gcctgtctca	gacctgatcc	tggaggccca	gttcacctg	atttaggaga	3960
agccaggaat	ttcccaggac	cctgaagggg	ccatgatggc	aacagatctg	gaacctcagc	4020
ctggccagac	acaggccctc	cctgttcccc	agagaaaggg	gagcccactg	tcttgggct	4080
gcagaatttg	ggttctgcct	gccagctgca	ctgatgctgc	ccctcatctc	tctgccaac	4140
ccttccctca	ccttggcacc	agaccccag	gacttattta	aactctgttg	caagtgaat	4200
aaatctgacc	cagtgcctcc	actgaccaga	actagaaaaa	aaaaaaaaag	g	4251

<210> 107

<211> 3141

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 471362.17

<220>

<221> unsure

<222> 119, 1130, 1133-1134, 1136-1137

<223> a, t, c, g, or other

<400> 107

tgcaacccca	gtgacggcgg	atctcatcgt	atctgtcatt	gtaattggtc	ctgatagctt	60
ccaccagctt	agccaaagcg	cctttgtctt	ccgagttcac	ctagtgtcga	aggcgacang	120
tgggtgcagg	cttctcttgg	actagacgtc	ccagctctgc	ctttcccttg	ataatgcagt	180
aagggaaccc	catttttacg	cacagcctga	agtgtcaac	tatgagcca	tcggctacgc	240
cacagacatg	tggagcatcg	gggtcatctg	ctacatccta	gtcagtggcc	tttccccctt	300
catgggagac	aacgataacg	aaaccttggc	caacgttacc	tcagccacct	gggacttcga	360
cgacgaggca	ttcgtatgaga	tctccgacga	tgccaaggat	ttcatcagca	atctgtctga	420
gaaagatatg	aaaaaacgcc	tggactgcac	cagctgcctt	cagcatccat	ggctaataaa	480
agataccaag	aacatggagg	ccaagaaact	ctccaaggac	cggatgaaga	agtacatggc	540
aagaaggaaa	tggcagaaaa	cgggcaatgc	tgtgagagcc	attggaagac	tgtcctctat	600
ggcaatgatc	tcagggtctca	gtggcaggaa	atctcaaca	gggtcaccaa	ccagcccct	660
caatgcagaa	aaactagaat	ctgaagaaga	tgtgtcccaa	gctttccttg	aggctgttgc	720
tgaggaaaag	cctcatgtaa	aacctatttt	ctctaagacc	attcgcgatt	tagaagtgtg	780
ggagggaagt	gctgctagat	ttgactgcaa	gattgaagga	taccagacc	ccgaggttgt	840
ctggttcaaa	gatgaccagt	caatcaggga	gtcccggcac	ttccagatag	actacgatga	900
ggacgggaac	tgctctttaa	ttattagtga	tgtttgagg	gatgacgatg	ccaagtacac	960
ctgcaaggct	gtcaacagtc	ttggagaagc	cacctgcaca	gcagagctca	ttgtggaaac	1020
gatggaggaa	ggtgaagggg	aagggaaga	ggaagaagag	tgaacaaaag	ccagagaaaa	1080
gcagtttcta	agtcataatta	aaaggactat	ttctctaaaa	ctcaaaaaan	aannannaaa	1140
ctcaagatag	taaaagcacc	tagtgtgata	gattatcggt	taggtcattt	gtgggttgat	1200
tcttcagaaa	cagcagttga	tacctagcag	cgttattgat	gggcattaat	ctatgttagt	1260
tggcacctta	agatactagt	gcagctagat	ttcatttagg	gaaatcacca	gtaacttgac	1320
tgaccaattg	atttttagaga	gaaagtaacc	aaaccaaata	tttatctggg	caaagtcata	1380
aattctccac	ttgaatgcgc	tcataaaaaa	taaggccaaa	acaagagttc	tgggccacag	1440
ctcagccag	aggggttcctg	gggatgggac	gcctctctct	ccccacccc	tgactctaga	1500
gaactgggtt	ttctcccagt	actccagcaa	ttcattttctg	aaagcagttg	agccacttta	1560
ttccaaagta	cactgcagat	gttcaaactc	tccattttctc	tttccccttc	cacctgccag	1620
ttttgctgac	tctcaacttg	tcattgagtg	aagcattaag	gacattatgc	ttcttcgatt	1680

```

ctgaagacag gtcctgtctc atggatgact ctggcttcct taggaaaata tttttcttcc 1740
aaaaatcagta ggaaatctaa acttatcccc tctttgcaga tgtctagcag cttcagacat 1800
ttgggttaaga acccatggga aaaaaaaaaa tccttgctaa tgtggtttcc tttgtaaacc 1860
aggattctta ttgtgtctgt tatagaatat cagctctgaa cgtgtggtaa agatttttgt 1920
gttttaatat aggagaaatc agtttgctga aaagttagtc ttaattatct attggccacg 1980
atgaaacaga ttccaactga taaagagctg gagaactcca tgtactttgg aatctcctcc 2040
aagatagcca gagttaata catcttcatt ctcaacactc tccaaagaac ttgacctacc 2100
ttatgggttc catatttttc ttcttaaatg tgcataatc atgccttgcc cccaaccttt 2160
aaatatattc tttagacctg taaatgcact cagacttgcg tctttaggaa tttttaactt 2220
tctttcacta cattggcact taaatttttt ctttataaag ctttttgaag gtcataaaca 2280
aagaccataa ttgatgatag acctaataca tttcctctgt gtgtgtgtgt aacattccaa 2340
atactttttt ttctttttcc actgttttga aggtgcaaca atttaatat ttttaaggac 2400
tttttaagag ttcttttaaga accaatttta aattacttca gtgcaatcct acacagtatc 2460
aacattagaa ttttgatatt agtcttatgt tatcttccat tctattttta tctgcttttt 2520
gtgtctagtt tcaactgcc agtatttttc cttttgcttt taaaatagtt acaatatttt 2580
tcatgatagc cacagtattg ccacagttta ttataataaa ggggtttttat ttgatttagc 2640
gcattcaaat tctcttttgt tcaactttgt gtgcagaata taacctttgt gtgctgtgat 2700
gtgtgtgtgt tgcagtgtgt gcgtatatgt gtgttacagg ttaatgcctt cttggaattg 2760
tgttaatgtt ctcttggttt attatgccat cagaatggta aatgagaaca ctacaactgt 2820
agtccagctc caatttttaa ataaaggata ccacagtga tgctgtttgt tcagtctttg 2880
cagacttctc tttctttcca tgctaccagt tghtaaaggc acagctatat cctggaaagt 2940
aaaaacaaac actgttgctg actagatgtga agaactggct tatgtggttg tgttttgcta 3000
tggaacagaa tgatttagga agttcttggt gatataggta gccgaattta cacatttagt 3060
tcaaaatttc tcttgagcat cagcttagta ctatatcaat cattctagaa ggatatctta 3120
tagagcaggt gtccccaatc c 3141

```

<210> 108
<211> 2454
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 336716.3

```

<400> 108
aggaggggatt ggctgaggag cttggagagg gggcgctcatc acctcaccca aagggttaaat 60
aggggttgat atatgatgct caggagaagc gctttctttc gcgagcacc tgaaccagac 120
catgacccag acctcaagt acgcctccag agtgttccat cgctccgct gggcgcccg 180
gttgggcgcc tccttaggct accgagagta ccactcagca cgccggagct tggcagacat 240
ccaggcccc tctacgcca gctttctggc cgaacttttc tgcaaggggg ggctgtcgag 300
gtacacagag gtgcaggtgc agggcgccgc gcaactcggg ccggtgtggc tagccagctt 360
tgggacagtg cgcaccgtgt acgtggctgc ccctgcactc gtcgaggagc tgcgtcgaca 420
ggagggaccc cggcccgagc gctgcagctt ctgcctctgg acggagcacc gcgctgccg 480
ccagcgggct tgcggactgc tcaactcgga aggcgaagaa tggcaaaggc tccgcagtct 540
cctggccccg ctctcctctc ggctcaagc ggccgccgcg tacgccgga cctgaacaa 600
cgtagcttgc cactctgtgc ggctctgag ggcgcagcgg ggactggga cggggcgccg 660
cgccctgggt cgggacgtgg cgggggaatt ttacaagtgc ggactggaag gcatcgccgc 720
ggttctgtct ggctcgctgt tgggctgcct ggaggtctaa gtgccaccg acacggagac 780
cttcatccgc gctgtgggct cgggtgtttgt gtccacgctg ttgaccatgg cgatgcccc 840
ctggctgcgc cactctgtgc ctgggcccct gggccgcctc tgccgagact gggaccagat 900
gtttgcattt gctcagaggc acgtggagcg gcgagaggca gaggcagcca tgaggaacgg 960
aggacagccc gagaaggacc tggagtctgg ggcgacactg acctacttc tgttcggga 1020
agagttgcct gccagtcct cctgggaaa tgtgacagag ttgctattgg cgggagtgg 1080
cacggtgtcc aacacgctct cttgggctct gtatgagctc tccggcacc ccgaagtcca 1140
gacagcactc cactcagaga tcacagctgc cctgagccct ggctccagt cctaccctc 1200
agccactgtt ctgtcccagc tgcccctgt gaaggcggtg gtcaaggaag tgctaagact 1260
gtacctgtg gtacctgga attctcgtgt ccagacaaa gacattcatg tgggtgacta 1320
tattatccc aaaaaatcgc tggctactct agtctcactat gccacttcaa gggaccctgc 1380
ccagttocca gagccaaatt ctttctgtcc agctcgttgg ctgggggagg gtcccacccc 1440
ccaccattt gcactctctt cctttggctt tggcaagcgc agctgtatgg ggagacgcct 1500
ggcagagctt gaattgcaaa tggctttggc ccagatccta acacattttg aggtgcagcc 1560
tgagccaggt cgggccccag ttagacccaa gacccggact gtcttggtac ctgaaaggag 1620
catcaacct catcttttgg acagatagtc ccatggaaag agactgtcat catcacctt 1680
tcattcatca tagggataag attttttgta ggcacaagac caaggtatac atcttcccc 1740
aatgcctatc tgaccaaact ggatagaacc accatagtga agtgtgaggc ggccctgacc 1800
aatgtgtgaa gtatgcactt ggctgactc aggaagccag gtgagaaaac catggtctct 1860

```

ctgcttgcctt	ggcccttctg	atcatgtatg	catccccc	ggatgaaatc	agattttaac	1920
taataatgct	ggatggcctg	aggaaagatt	caactgcctc	tctttttggg	ctttcatagt	1980
gttcattgat	gctgctggct	aagcatttat	caaagcataa	gctcagtaac	tgtgcatctg	2040
gtctgtacct	gggtggctct	tcgtctttgc	atgtaagctc	tttgagagga	agggtgaagc	2100
cttatttggt	ttttatgtcc	cctgccaggg	cctgtctctg	actagggtgc	accatacaca	2160
ttcttagatt	gaatctgaac	catgtggcag	aagggataag	cagcttactt	agtaggctct	2220
gtctaccccc	ttccttcttt	gtcttgcccc	taggaagggtg	aatctgccct	agcctggttt	2280
acggtttctt	ataactctcc	tttgctctct	ggccactatt	aagtgggttt	gccccatcac	2340
ttagttctca	ggcagagaca	tctttggggc	tgtccctgcc	caggcctctg	gctttttata	2400
ttgaaaattt	ttaaaatttc	acaaaatttta	gaataaatca	aattattccat	tctt	2454

<210> 109

<211> 4577

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 995211.5

<400> 109

ccccacatga	tttattcagt	agtttttatg	ttcccaaatt	acaatttatg	tctattcata	60
agactacaaa	agttaccatt	agaattgtct	gtgcttataa	aataccaact	ttttttttaa	120
actgttacat	atactcatta	acaccagtct	gcaacaagtt	acatagaatc	agaggcactt	180
caaaggctta	aaaagacgtt	tacaacttaa	atgcattttt	aagaacaaaa	actgattttt	240
ctttaaacct	ctactcgtac	cttcaaattg	caagaaatta	acaaatacag	tggccaaagg	300
aatctgcagc	aacttcttaa	aatactgtta	acatctttgg	gtttgctgag	gcttgtcagt	360
aacttacatc	aaatcctccc	aaaagaagat	ctgattagat	agatatgact	aaacggtttt	420
gtagtaataa	tccaatttta	cacattaatt	tgtctgttga	aatctgcca	aagctacagg	480
taatgaaaaa	taaagcaagt	gtaaaatgga	tagtctgaca	cttaaaaaat	tatacaaaag	540
ggaagttaaa	gtttacatata	ttgaaaatca	catatacact	aaattaccat	tatctgaatt	600
ttccaaagac	aaattgcacc	atgacagcta	caaaaggcat	agggtttggg	tttaagggca	660
caagaaggga	gggcagagga	gaggaagggg	acaacagata	aattaacaaa	gtaagaccac	720
cttgtaagg	tcaatctgag	acatgctgac	acaaatgaaa	cagctttcoat	ctttgagtca	780
taggaaaaag	acaatcattt	tgtatttgcg	cataaaagtt	taaaccaatt	ccatgaacat	840
cgagggtttt	cataacataa	tattttgcca	ctgctattca	cagaacactg	cagatgttaa	900
attttaattt	tatgttgttc	taaagaaata	catgaaatgt	tttaaataca	atgggatttt	960
atcattaaag	tgccagaatg	gctctttaat	gaaaacaaaa	aacaaagatc	ttcattattc	1020
tatgcaaaag	ctttattttg	aaaagttcag	tgatctcata	aatagagaca	ctaagttgga	1080
gttttacgca	taaaactcct	tagtaggtgc	cttctgataa	gcagcactgg	atgggtttgcg	1140
ttctccaagg	tcatagcttc	cttcctcctt	ctttctcatg	cgatacacca	acagcaggat	1200
aagaaaaatt	gcaaagagaa	agccaataac	tcaccagca	atgacagctg	ctaggacttc	1260
tgtccgttta	aacagactgt	ctgagtgttt	ctcagtatac	acattttgat	cctcttcggc	1320
tygggtccatt	ttcctttctg	agtcagagag	gtgaactttc	tctttatcag	tttcttcagg	1380
tgactttgtc	tgagcaggta	tcttggtctg	tataatcagc	gtcgtgggtt	ccacttttgg	1440
agcagcacta	gtcaacagta	tcttttggaag	tggtcgagat	gttgctcagct	ctggactctc	1500
tacatcctca	tcagctcccg	agccagacgc	agaagcgtag	tcacgtctcat	caataggata	1560
cactcctgaa	gcttcttcaa	tggagctggt	gtcaaggtag	atgtctttat	cagatgtcag	1620
ctctgctccg	gattcgtgtg	cgcggtctgc	gcccagcgct	gggcaggagg	cttcgttttg	1680
ccctggttgc	aagcagcggc	tgggagcagc	cggtccctgg	ggaatatgcg	gcgcgcgtgg	1740
atcctgctca	ccttggtgct	ggtggcctgc	gtgtcgcgcg	agtcgagagc	agagctgaca	1800
tctgataaag	acatgtacct	tgacaacagc	tccattgaag	aagcttcagg	agtgtatcct	1860
attgatgacg	atgactacgc	ttctgcgtct	ggctcgggag	ctgatgagga	tgtagagagt	1920
ccagagctga	caacaactcg	accacttcca	aagatactgt	tgactagtgc	tgctccaaaa	1980
gtggaacca	cgacgctgaa	tatacagaac	aagatacctg	ctcagacaaa	gtcacctgaa	2040
gaaactgata	aagagaaagt	tcacctctct	gactcagaaa	ggaaaatgga	cccagccgaa	2100
gaggatacaa	atgtgtatac	tgagaaacac	tcagacagtc	tgtttaaacg	gacagaagtc	2160
ctagcagctg	tcatttcttg	tggagttatt	ggctttctct	ttgcaatttt	tcttatcctg	2220
ctgttggtgt	atcgcatgag	aaagaaggat	gaaggaagct	atgaccttgg	agaacgcaaa	2280
ccatccagtg	ctgcttatca	gaaggcacct	actaaggagt	tttatgctga	aaactccaac	2340
ttagtgtctc	tatttatgag	atcactgaac	ttttcaaaa	aaagcttttg	catagaataa	2400
tgaagatcct	tgttttttgt	tttcaattaa	gagccattct	ggcactttta	tgataaaatc	2460
ccattgtatt	taaaacattt	catgtatttc	tttagaacia	cataaaatta	aaatttaaca	2520
tctgcagtgt	tctgtgaata	gcagtggcaa	aataattatgt	tatgaaaacc	ctcgatgttc	2580
atggaattgg	tttaaacctt	tatgcgcaaa	tacaaaatga	ttgtcttttt	cctatgactc	2640
aaagatgaaa	gctgttccat	ttgtgtcagc	atgtctcaga	ttgaccttac	caagttggte	2700
ttactttgtt	aatttatctg	ttgtccctct	ccctccctct	gcctccctct	cttgtgcct	2760

taaaaccaa	ccctatgcct	tttgtagctg	tcattggtgca	atttgtcttt	ggaaaattca	2820
gataatggta	athtagtgta	tatgtgattt	tcaaatatgt	aaactttaac	ttccactttg	2880
tataaatttt	taagtgtcag	actatccatt	ttacacttgc	tttatttttc	attacctgta	2940
gctttgggca	gatttgcac	agcaaattaa	tgtgtaaaat	tggattatta	ctacaaaacc	3000
gttttagtcat	atctatctaa	tcagatcttc	ttttgggagg	atttgatgta	agttactgac	3060
aagcctcagc	aaacccaaag	atgttaacag	tattttaaga	agttgctgca	gattcctttg	3120
gccactgtat	ttgttaattt	cttgcaattt	gaaggtagca	gtagagggtt	aaagaaaaat	3180
cagtttttgt	tcttaaaaat	gcattttaagt	tgtaaacgtc	tttttaagcc	tttgaagtgc	3240
ctctgattct	atgtaacttg	ttgcagactg	gtgttaatga	gtatatgtaa	cagtttaaaa	3300
aaaaagtgtg	tattttataa	gcacagacaa	ttctaattgg	aactttttgt	gtcttatgaa	3360
tagacataaa	ttgtaatttg	ggaacataaa	aactactgaa	taaatcatgt	ggcctaatat	3420
tgaaaatgtc	actgtttata	atttttgtaca	tttttgatca	aatgtacatc	tccccctttg	3480
taacggccgt	ctgctctcaa	ggatgacgtg	ggtttgattt	ctaagtgttt	cacagtgtct	3540
gtaaatcaag	accaaagagc	ctgtcgtatg	gactgtttat	taccagattc	acttctgaat	3600
tggccagagg	aaatctgaat	gtattatcct	gtgtgtgtct	aggtagagat	attggaaggc	3660
tgccagggga	tttcgaagtt	tgcaaccttt	ataggataac	tgtatggcaat	attaagacag	3720
acgctgtctt	ttgcaataaa	cttacaagac	tgtaaattcc	aaagatctga	atggggcttt	3780
cctgatgttg	gtatctaaag	cttaggccta	tagattgatt	tacctttgga	attgtgtctc	3840
aaatgtctac	tgaagcttaa	ccgaagaact	aataaatgga	ctacagtagc	tcacgttaca	3900
gggaaggagg	gtaggcaggg	aggctctgtg	tgttaaaatg	agggtctcac	tgcttttagga	3960
ttgaagtggc	tggaagaggt	gatgcctggg	gaaggagatg	gagttatgag	ggtactgtgg	4020
ctggtacttt	ctgtactaaa	catttctctt	ttctatttta	ccactaattt	tgtttttaac	4080
tgtgaagcgt	ccaagtacga	agaagacagc	aaaaaaaagc	aactttttcca	acatacaatt	4140
tacttttaat	aaagtatgaa	tatttctatt	tgagaacatt	ccctggaatt	gccacataat	4200
tcattaaaaa	cattttttta	agcaacactt	ggaacagtgt	ttacttttaa	tccttaattg	4260
ccttaattaa	ttctcagatt	cctgccccat	cacttacaga	accaattcac	tttagagtga	4320
ctaaaaggaa	accgatgcct	agctttctaa	agccacgctg	tgtccctcaa	ttacagaggg	4380
taggaatggg	tatacctcta	actgtgcaaa	gcagagtga	attcaattca	tagaataaca	4440
actgtctggg	atatccgtgc	caggaaaaga	aaaatttctg	gcaaatatth	tgtcactgct	4500
gtaaagcaaa	atatttgtga	aagtgcctaa	ataaagtctg	tcattgcaaa	agtaaaagaa	4560
aaaaaaaagg	gcggcccg					4577

<210> 110

<211> 2646

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 238824.2

<220>

<221> unsure

<222> 43, 55, 93, 106

<223> a, t, c, g, or other

<400> 110

ggacgcgcgc	catgcgcgcg	gcaacccagg	ccacgagcac	ggncgcgtgc	ttaantcagc	60
gcgcgcgcgc	taccgacgcg	aggaggcccc	gcncctccagc	cccgcncgcg	tcgctggcct	120
gccctcctct	tgctaccctc	ccggcgcgaga	gaaccccggc	tgctcagcgc	gctccgcggg	180
catggagatc	cccgggagct	tgtgcaagaa	agtcgaagctg	agcaataacg	cgcagaactg	240
gggaatgcag	agagcaacca	atgtcaccta	ccaagcccat	catgtcagca	ggaacaagag	300
aggtcagggtg	gtggggacca	gaggtggcctt	tcgtgggttg	acagttttgg	taacaggcctt	360
gtctggagcg	ggaaagacta	ctgtgagcat	ggccttggag	gagtaacctg	tttgtcatgg	420
tattccatgc	tacactctgg	atgggtgacaa	tattcgtcaa	ggtctcaata	aaaatcttgg	480
ctttagtctt	gaagacagag	aagagaatgt	tcgacgcac	gcagaagtgt	ctaaactggt	540
tgcatgatgct	ggcttagtgt	gcacacaaag	tttcatatca	ccttacactc	aggatcgcaa	600
caatgcaagg	caaattcatg	aaggtgcaag	tttaccgttt	tttgaagtat	ttgttgatgc	660
tcctctgcat	gtttgtgaac	agagggatgt	caaaggactc	tacaaaaaag	cccgggcagg	720
agaaattaaa	ggtttctactg	ggatcgattc	tgaatatgaa	aagccagagg	cccctgagtt	780
ggtgctgaaa	acagactcct	gtgatgtaaa	tgactgtgtc	cagcaagtgt	tggaactttc	840
acaggaaacgg	gatattgtac	ctgtggatgc	atccttatgaa	gtaaaagaac	tatatgtgcc	900
agaaaaataaa	cttcatattgg	caaaaacaga	tgcggaacaa	ttaccagcac	tgaaaattaa	960
taaaagtggat	atgcagtggg	tcaggttttt	ggcagaagg	tgggcaaccc	cattgaatgg	1020
ctttatgaga	gagagggagt	acttgacgtg	ccttcatttt	gattgtcttc	tggtatggagg	1080
tgtcattaac	ttgtcagtac	ctatagttct	gactgcgact	catgaagata	aagagaggct	1140
ggacggcgtg	acagcatttg	ctctgatgta	tgagggccgc	cgtgtggcca	ttcttcgcaa	1200

tccagagttt tttgagcaca ggaaagagga gcgctgtgcc agacagtggg gaacgacatg 1260
caagaaccac ccctatatata agatgggtgat ggaacaagga gattgggtga ttggaggaga 1320
tcttcaagtc ttggatcgag tttattggaa tgatgggtctt gatcagtatc gtcttactcc 1380
tactgagcta aagcagaaat ttaaagatat gaatgctgat gctgtctttg catttcaact 1440
acgcaaccca gtgcacaatg gacatgccct gttaatgcag gatacccata agcaacttct 1500
agagaggggc taccggcgcc ctgtctctct cctccaccct ctgggtgggt ggacaaaagga 1560
tgacgatgtt cctttgatgt ggcgatgtaa gcagcatgct gcagtgttgg aggaaggagt 1620
tctgaatcct gagacgacag tggtagccat cttcccatct cccatgatgt atgctggacc 1680
aactgaggtc cagtggcatt gcagagcacg gatgggtgca ggagccaact ttacattgt 1740
tggaagagac cctgctggca tgcctcatcc agaaacaggg aaggatcttt atgagccaag 1800
tcatggtgcc aaagtgtgta cgatggcccc tgggtttaatc actttggaaa tagttccctt 1860
tcgagttgca gcttacaaca agaaaaagaa gcgtagggac tactatgact ctgaacacca 1920
tgaagacttt gaattttatt caggaacacg aatgcgcaaa cttgctcgag aaggccagaa 1980
accacctgaa ggtttcatgg ctcccaaggc ttggaccgtg ctgacagaat actacaaatc 2040
cttgagagaaa gcttaggtg ttaaccacgt cactccacct ttgacacatt actagtaaca 2100
agaggggacg acatagtctc tgttggcatt tctttgtggt gtctgtctgg acatgcttcc 2160
taaaaacaga ccattttctt taacttgc atgttttgggt ctgcttatg agttctgttt 2220
tgaacaagt taacacactg atgggtttta tgtatctttt ccacttatta tagttatatt 2280
cctacaatac aatttttaaa ttgtcttttt atattatatt tatgtctctg tgtcatgatt 2340
ttttcaagct gttatattag ttgtaaccag tagtattcac attaaatctt gctttttttc 2400
cccttaaaaa aagaaaaaaa ttaccaaaacg ctgacacttg ttttgaggat 2460
tttacaagac cttttagcgc attagatttt tttctacat tgaaaataga aactgcttcc 2520
tttctctttt ccagtcagct attggtcttt ccagctgtta taacttaag tattcttatg 2580
atctgtgtaa gctctgaatg aacttcttta ctcaataaaa ttaatttttt ggcttcttaa 2640
aaaaaa 2646

<210> 111

<211> 3328

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 474592.3

<400> 111

gcggcgggg tgctccgctg gagtgatggc tgccggcgct ctctgcgtgg ttcttcttct 60
cggcgctga aacccccggc gctgcttctt gggaaggctg tgagtcgccg tgagctgtcc 120
cgggtgccg cgaccggggc cgtgtgcccg ttggtccagc cgctgcggcc tcgactctct 180
cgtctccgc tccgcccctc cttttccctg gatgaacttg cgctctttct cttctccgcc 240
atggaattct gctccgtgct tttagccctc ctgagccaaa gaaaccccag acaacagatg 300
cccatacgca gcgtatagca gtaactcccc agctcgggtt ctgtgccgta gtttacagta 360
tttaatttta tataatatat attattttatt atagcatttt tgatacctca tattctgttt 420
acacatcttg aaaggcgctc agtagttctt ttactaaaca accactactc cagagaatgg 480
caacggtgat taccagtact acagctgcta ccgcccgttc tggtcctttg gtggactacc 540
tatggatgct catcctgggc ttcatatttg catttgtott ggcattctcc gtgggagcca 600
atgatgtact aaattctttt ggtacagctg tgggctcagg tgtagtacc ctgaagcaag 660
cctgcatcct agctagcatc tttgaaacag tgggctctgt cttactgggg gccaaagtga 720
gcgaaaccat ccggaagggc ttgattgacg tggagatgta caactcgact caagggtctg 780
tgatggccgg ctgagtcagt gctatgtttg gtctgtctgt gtggcaactc gtggcttctg 840
ttttgaagct ccttattctt ggaaccattt gtattgttgt tgcaactatt ggtttctccc 900
tcgtggcaaa ggggcaggag ggtgtcaagt ggtctgaact gataaaaatt gtgatgtctt 960
ggttcgtgtc cccactgctt tctggaatta tgtctggaat ttattcttct ctggttctgt 1020
cattcatcct ccataaggca gatccagttc ctaatgggtt cgcagctttg ccagttttct 1080
atgctgcac agttggaata aacctctttt ccatcatgta tactggagca ccgttgcgtg 1140
gctttgacaa acttctcttg tgggttacca tctcatctc ggtgggatgt gcagttttct 1200
gtgcccttat cgtctggttc tttgtatgtc ccaggatgaa gagaaaaatt gaacgagaaa 1260
taaagtgtag tcttctgtaa agccccctaa tggaaaaaaa gaatagcttg aaagaagacc 1320
atgaagaaac aaagtgtctt gttggtgata ttgaaaacaa gcatcctgtt tctgaggtag 1380
ggcctgccac tgtgcccctc caggctgtgg tggaggagag aacagtctca ttcaaacttg 1440
gagatttggg ggaagctcca gagagagaga ggttcccag cgtggacttg aaagaggaaa 1500
ccagcataga tagcaccgtg aatggtgcag tgcagttgcc taatgggaac cttgtccagt 1560
tcagtcaagc cgtcagcaac caaataaact ccagtggcca ctaccagtat cacaccgtgc 1620
ataaggattc cggcctgtac aaagagctac tccataaatt acatcttgcc aaggtgggag 1680
attgcatggg gactaccctt taaggcgcaa taatagctat acttctata 1740
ccatggcaat atgtggcatg cctctggatt cattccgtgc caaagaagggt gaacagaagg 1800
gcgaagaaat ggagaagctg acatggccta atgcagactc caagaagcga attcgaatgg 1860


```

acagttacac cagttactgc aatgctgtgt ctgaccttca ctcagcatct gagatagaca 1920
tgagtgtcaa ggcagagatg ggtctagggt acagaaaagg aagtaatggc tctctagaag 1980
aatgggtatga ccaggataag cctgaagtct ctctcctctt ccagttcctg cagatcccta 2040
cagcctgctt tgggtcattc gcccatgggt gcaatgcacg taagcaatgc cattgggcct 2100
ctgggttgctt tatatttggt ttatgacaca ggagatgttt cttcaaaagt ggcaacacca 2160
atatggcttc tactctatgg tgggtgtggg atctgtgttg gtctgtgggt ttggggaaga 2220
agagttatcc agaccatggg gaaggatctg acaccgatca caccctctag tggcttcagt 2280
attgaactgg catctgccct cactgtgggt attgcatcaa atattggcct tcccatcagt 2340
acaacacatt gtaaagttaa ctctgttggt tctgttggtt ggctccggtc caagaaggct 2400
gttgactggc gtctctttcg taacattttt atggcctggg ttgtcacagt ccccatctt 2460
ggagttatca gtctgccat catggcaatc ttcagatatg tcatcctcag aatgtgaagc 2520
tgtttgagat taaaatttgt gtcaatgttt gggaccatct taggtattcc tgctccccctg 2580
aagaatgatt acagtgttaa cagaagactg acaagagtct ttttatttgg gagccagagg 2640
agggaaagtgt tacttgtgct ataactgctt ttgtgctaaa tatgaattgt ctcaaaatta 2700
gctgtgtaaa atagcccggt ttccactggc tctgtctgag gtcccccttc cttctgggct 2760
gtgaattcct gtacatattt ctctactttt tgtatcaggg ttcaattcca ttatgtttta 2820
atgttgtctc tgaagatgac ttgtgatttt ttttctttt ttttaacca tgaagagccg 2880
tttgacagag catgctctgc gttgttggtt tcaccagctt ctgccctcac atgcacaggg 2940
atttaacaac aaaaatataa ctacaacttc cctttagtgc tcttatataa gtagagtcct 3000
tgggtactctg cctcctgtgc agtagtggca ggatctattg gcatattcgg gagcttctta 3060
gagggatgag gttctttgaa cacagtgaag atttaaatga gtaacttttt tgcaagcagt 3120
ttattgactg ttattgtctaa gaagaagtaa gcaagaaaaa gcctgttggtc aatcttgggt 3180
atctctttta gatttctggc agtgtgggat ggatgaatga agtggaatgt gaactttggg 3240
caagttaaat gggacagcct tccatgttca tttgtctacc tcttaactga ataaaaaagc 3300
ctacagtttt tagaaaaaac ccgaattc 3328

```

<210> 112

<211> 2434

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 431338.2

<220>

<221> unsure

<222> 834-868, 871

<223> a, t, c, g, or other

<400> 112

```

ggctgctaaa cccaaccgca gttgactagc acctgctacc gcgcctttgc ttccctggcg 60
acgcgaggcc tcttgaggcc tgccaccatc ctgcctacta cgtgctgccc tgcgcccga 120
gccatgtgcc gcacctggc cgccttcccc accacctgcc tggagagagc caaagagttc 180
aagacacgtc tggggatctt tcttcacaaa tcagagctgg gctgcgatac tgggagtact 240
ggcaagttcg agtggggcag taaacacagc aaagagaata gaaacttctc agaagatgtg 300
ctggggtgga gagagtgtt cgacctgtc ctgagcagta aaaatggagt ggctgccttc 360
cacgctttcc tgaagacaga gttcagttag gagaacctgg agttctggct ggctgttag 420
gagttcaaga agatccgata agctaccaag ctggcctcca gggcacacca gatcttttag 480
gagttcattt gcagtgaggg ccctaaagag gtcaacattg accatgagac ccgagagctg 540
acgaggatga acctgcagac tgccacagcc acatgctttg atgcggctca ggggaagaca 600
cgtaccctga tggagaagga ctctacccca cgcttcttga agtcgctgac ttaccgggac 660
ctggctgccc aagcctcagc cgctctgccc actctgtcca gctgcagcct ggacgagccc 720
tcacacacct gagtctccac ggcagtggag aagccagccg ggaagagagg ttgagtcacc 780
catccccgag gtggctgccc ctgtgtggga ggcaggttct gcaaagcaag tgcnnnnnnn 840
nnnnnnnnnn nnnnnnnnnn nnnnnnnntg ngctccagca gcctgtttgg gaagcagcag 900
tctctccttc agatactgtg ggactcatgc tggagaggag ccgcccactt ccaggacctg 960
tgaataaggg ctaatgatga ggggttggtg ggctctctgt ggggcaaaaa ggtgggtatg 1020
gggttagcac tggctctcgt tctcaccgga gaaggaagtg ttctagtgtg gtttaggaaa 1080
catgttgata aggggaacca tgaaaatgag aggaggaaag acatccagat cagctgtttt 1140
gcctgttgct cagttgactc tgattgcata ctgttttctt aattcccaga ctgttctggg 1200
cacggaaggg accctggatg tggagtcttc ccctttggcc ctctctactg gcctctgggc 1260
tagcccagag tcccttagct tgtacctcgt aacactcctg tgtgtctgtc cagccttgca 1320
gtcatgtcaa gggccagcaag ctgatgtgac tcttgcccca tgcgagatat ttataacctc 1380
aacactgggc ctgtgagccc tttccaagtc agtggagagc cctgaaagga gcctcacttg 1440
aatccagctc agtgctctgg gtggccccct gcaggtggcc cctgaccctg cgttgagca 1500
gggtccacct gtgagcaggg ccgcccctggg gcctcttctt ggatgtgccc tctctgagtt 1560

```



```

ctgtgctgtc tcttggaggc agggcccagg agaacaaagt gtggaggcct cggggagtgg 1620
cttttccagc tctcatgccc cgcagtgtgg aacaaggcag aaaaggatcc taggaaataa 1680
gtctcttggg ggtccctgag agtcctgtcg aaatccagcc agtggttttt gtggtatgag 1740
aacaggcaaa aagagatgcc ccgagataga aggggagcct tgtgtttcct tcctgcagac 1800
gtgagatgaa cactggagtg ggcagaggtg gccaggacc atggcaccct tagagtgcag 1860
aagctggggg gagaggctgc ttcgaagggc aggactgggg ataatcagaa cctgcctgtc 1920
acctcagggc atcactgaac aaacatttcc tgatgggaac tcctgcggca gagcccaggc 1980
tggggaagtg aactaccag gccagccctt ttgtggccca ggataatcaa cactgttctc 2040
tctgtaccat gagctcctcc aggagattat ttaagtgtat tgtatcattg gttttctgtg 2100
attgtcataa cattgttttt gttattgttg gtgctgttgt tatttattat tgtaatttca 2160
gtttgcctct actggagaat ctcagcaggg gtttcagcct gactgtctcc ctttctctac 2220
cagactctac ctctgaatgt gctgggaacc tcttggagcc tgtcaggaac tcctcactgt 2280
ttaaataattt atttattgtg acaaattggg ctggtttcc agatatgaat gatgtttgca 2340
atccccattt tcctgtttca gcatgttata ttcttataaa ataaaagcaa aagtcaaata 2400
tgaaaaaaa agggcgcccg ccgactagtg agggg 2434

```

<210> 113

<211> 14835

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 412631.5

<220>

<221> unsure

<222> 7754-7788, 11011-11037

<223> a, t, c, g, or other

<400> 113

```

cgccccgggca ggtggcggca gagctgaagt gagcggagcc accaggaggc catgtcgggt 60
gaggacgctg aggtccgggc agtctctgaa gatgtctcca atggaagcag tggctcgccc 120
agccctgggg acacactgcc ctggaacctt gggaaaacgc agcggagccg gcgcagcggg 180
ggtggcgctg ggagcaacgg gagtgtcctg gaccagctg agcgggcggt cattcgcatc 240
gcagatgagc gggatcgtgt gcagaagaaa accttcacca agtgggtcaa caagcacctc 300
atcaaggccc agaggcacat cagtgcctg tatgaagacc tccgcgatgg ccacaacctc 360
atctccctgc tggaggtcct ctcgggggac ctggactacc tccggcaccg ccaggatgaag 480
ttccacaagc tgcagaatgt ccagattgcc gacgggaacc ccaagctgac ccttggcctc 540
ctggtgaaca tcaggaatga tgacatcgct tcagatatcc agtgagtgg gcagtcggag 600
atctggacaa tcattctgca cttccagatc tggtcgcagc gaatgggtgga ggggtaccag 660
gacatgacgg ccaaggagaa gctgctgctg tggagagacg gccgcctctt caatgccatc 720
ggcctgcgat gcagcaacct cactccagc gctcatcgac tgtaccggca gaccaacctg 780
atccaccggc acaagccctt ctctgtggcg gagcgggacc tgggagtgcac gcggtcctcg 840
gagaacctgg accaggcctt ccctcagccc gacgagaagt ccatcatcac ctacgtctcg 900
gacctgagg acgtggatgt ccctcagccc gacgtgcagg atggggtgag ggccaacgag 960
tcgtgtatg acgccatgcc ccgcgtgccg gctgcttcag tggatgcgac tggatgcgac 1020
ctgcagctgc gctggcagga gtaccggaac tcccctccag cttcaggagg attgagatcc 1080
accacacggc cgcccttgag gaacgcaggt tggagctacc agccaaggag gccgacaaga 1140
tgtggtctca gttcctgaag tttaaggaga agggagcggg gcaagcaggc cagctcaagg 1200
acaggtccaa gggcatctac caatccctgg agaaggagtg gggcaagctg cacgtggcca 1260
tgccccctgg ctaccacccg ctggatgtgg agtttgagag gctggagtgt cttcagcgca 1320
tcctggagcg ggagaagcag ctccgcagcg tgtgtgagga gcagctgaac caggccgacg 1380
tcgtgaccaa gctgcagatg gaggcggggc ctgcaggcaa agtgccacag cgggcggggg 1440
ccctgctgca gtcggatgtc cggctgctgg gcatgatccg gctgctcttc aacgacgtgc 1500
aggttggaac ggacttggac aaggcgata gcgagcagat gtaccgcagg gtgtaccgtc 1560
agacctcaa ggatggacgg atccgcaccg agtacaacct acggctgaag gcaggcgtgg 1620
tgcacgagcg cctggtagcc gcccagggtg ctctgcagag tgtgcagagg cgccccgagc 1680
cgggccctgc aacctagggt tacctgcagg acctgctggc ctgggtggag gagaaccagc 1740
tggaggactc cactctgcgc tggggtgtgg aattccgggc caagatcgag cgggcacgga 1800
accgtgtgga tggcctgag tccatcgaag ggggtgccta ccgtgactgc ctgggtcggc 1920
gccaccgagg cctgcaaccag cccgccaccc ctctcaaggc ccgcctcagg tccttgagga 1980
gtgacgaggg gtacgccaag ctgctgaact aggagctaat tgggtggaat gagaaggagg 2040
tggacctgca gcttgcacag gccgcacta gcaacaccaa catgaccgcc aagaaggaga 2100
cggaggaggt gggcttgcac tggagcgacc tgaaggagaa gaagatcaag gagctccaaa 2160
gctactcggc gctgatgcgg gagctggagc

```

atgctgggga	cgggctgctg	cgggaggacc	acccggcccg	gcccacggtg	gagtccttcc	2220
agggcgccct	gcagacgcag	tggagctgga	tgtctacagct	gtgctgctgt	atcgaggcac	2280
acctgaagga	gaacgctgcc	tactttcagt	tcttctcaga	tgtgcgggag	gccgaggggc	2340
agttgcagaa	gctgcaggag	gcactgctga	gaaataacag	ttgtgatcgc	tccgccaccg	2400
tcaccgggct	ggaggacctg	ctgcaggatg	ccaggacga	gaaggacag	ctgaacgagt	2460
acaagggcca	cctctcaggc	ctggccaagc	gggccaaggc	cgctcgtcag	ctgaagcccc	2520
gccaccacgc	ccaccccatg	cggggccgcc	tgcccttgc	ggccgtgtgc	gactataagc	2580
aggtggaggt	gactgtgcac	aagggtgacg	agtgcagct	ggtgggccc	gcacagccgt	2640
cccactggaa	ggtgctcagc	agctccggca	gcgaggccgc	cgctgccctcc	gtgtgcttcc	2700
tgggtgcccc	gctcaaccag	gaggcccagg	aggccgtcac	caggctggag	gcccagcacc	2760
aggccctggt	cacgctgtgg	caccagttgc	acgtggacat	gaagagcctt	ctggcctggc	2820
agagccttcg	ccgcgacgtg	cagctcatcc	gctcgtggtc	cctggccacg	ttccgcaccc	2880
tgaagccaga	ggagcagcgc	caagccctgc	acagcctgga	gctgcactac	caggccttcc	2940
tgccggacag	ccaggacgtg	ggcgggcttc	ggacccgatg	ggaccggctg	atggctgagc	3000
gcgagtacgg	ctcctgcagc	caccactacc	agcagctgct	gcagagcctg	gaacaggggtg	3060
cacaggaaga	gtctcgtcgc	cagcgtgcga	tctccgagct	caaagacatc	cggctgcagc	3120
tggaggcctg	tgagacgcgc	accgtgcacc	gectgcggct	gccgtggac	aaagagccgg	3180
cacgggagtg	tgcccagcgc	atcgccgagc	agcagaaggc	acaggcagag	gtggaggggc	3240
tgggcaaggg	ggtcgcccg	ctctctgcgc	aggccgagaa	ggtcttggcc	ctaccagagc	3300
catcgcttgc	ggccccacg	ctgcgctcgg	agctggagct	gacgctgggc	aagctggagc	3360
aggtccgcag	cctgtctgcc	atctacctgg	agaagctcaa	gacctcagc	ctggtgatcc	3420
gcgggcacag	ggggcccgag	gaggtgctca	gggcccacga	ggagcagctc	aaggaggccc	3480
aggccgtgcc	ggccaccctc	ccggagctcg	aggccaccaa	ggcctctctg	aagaagctgc	3540
gggcccaggc	cgaggcacag	cagcccacgt	tcgacgccct	gcgggatgag	ctgcgggggg	3600
cacaggaggt	gggggagcga	ctgcagcagc	ggcacgggga	gcgggacgtg	gaggtggagc	3660
gctggcggga	gcgggtcgcc	cagttgcttg	agcgtggga	ggctgtgctg	gcccagaccg	3720
acgtgcggca	cgcgcagctc	gagcaactgg	ggccgcaact	gcgttactac	cgcgagagtg	3780
cagaccctt	gggcgccttg	ctgcaggacg	ccaggcggcg	gcaggagcag	atccaggcca	3840
tgccgtgggc	cgacagccag	gctgtgcggg	agcagctgcg	gcaggagcag	gccctgctgg	3900
aggagatcga	gcgccacggc	gagaaggtcg	aggagtgcga	gaggtttgcg	aaacagtaca	3960
tcaacgcgat	caaggactat	gaactccagc	tggtgacgta	caaggcgcag	cttgagccgg	4020
tggcctcccc	ggccaagaag	cccaaggctc	agtccggatc	agagagtgtc	atccaggagg	4080
gctaaccctg	gctctactcc	acagtacgtg	gacctgcgta	cgactacag	cgagctgacc	4140
acactgacga	gccagttacat	caagttcatc	agcagagactc	tgccggcgc	ggaggaggag	4200
gagaggtctg	ctcagccagc	gcgggcagag	gagcgcgagc	ggctggccga	ggtggaggcc	4260
gcgctggaga	agcagcggca	gctggccgag	gcgcacgccc	aggcaaaagg	acaggcggag	4320
cgggaggcga	aggagctgca	gcagcgcagc	caggaggagg	tggtgcggcg	ggaggaggcg	4380
gcggtggacg	cgcagcagca	gaagcgcagc	attcaggagg	agctgcagca	gctgcggcag	4440
agctcggagg	cggagatcca	ggccaaggcc	cggcaggcag	aggcggctga	gcgcagccgg	4500
ctgcgcacgc	aggagcagat	ccgcgtggtg	cgcttgcagt	tgaggccac	cgagcgcag	4560
cgtggcgggg	ctgaggggga	gctgcaggca	ctgcgtgcac	gggcggagga	ggctgaggca	4620
caaaagcgac	aggcgcagga	ggaggccgag	cgcttgcgga	ggcaggtgca	ggacgagagc	4680
cagcgtaaag	ggcaggcgga	ggtggagctg	gcctcgcgcg	tgaaggccga	ggccgaggcg	4740
gcgcgcagca	cctgcaggcc	ctgcaggagc	ctggaggagc	tgccgctgca	ggcggaggag	4800
gcggagcggc	gcctgcggca	ggccgagggtg	gagcgcagcg	ggcagggtaca	ggtggccctg	4860
gagacggcgc	agcgcagctg	agaggcggag	ctgcagagca	aacgcgcctc	cttcgccgag	4920
aagacggcac	agctggagcg	ctccctgcag	gaggaaacacg	tggtctgtggc	acagctgcgg	4980
gaggaggtcg	agcggcgggc	acagcagcag	gccagggccg	agcgggcgcg	cgaggaggca	5040
gagcgggagc	tgaggcgtg	gcagctcaag	gccaacgagg	cgctacggct	gcggctgcag	5100
gcggaggagg	tgccgcagca	gaagagcctg	gcgcaggccg	aggctgagaa	gcagaaggag	5160
gaggcggagc	gcgaggccgc	gcggcgcggc	aaggcggagg	agcagccgt	ccggcagcgg	5220
gagctggctg	aacaagagct	ggagaagcag	cggcagctgg	cggaaggcac	cgccgagcag	5280
cgccctggccg	cggagcagga	gttgatccgg	ctgcgggccc	agacggagca	gggggagcag	5340
cagcggcagc	tgctggagga	ggagctggcc	cggctgcagc	gtgaggcggc	tgacgccag	5400
cagaaacggc	aggagctgga	agccgagctg	gccaaagtgc	gggcccagat	ggaggtgctg	5460
ctggccagca	aggcaggggc	tgaggaggag	tcgcgctcca	ccagcgagaa	gtccaagcag	5520
aggctggagg	ccgagggccg	ccggttccgc	gagctggccg	aggaggccgc	ccgcttgcgt	5580
gccctggcgg	aagaggccaa	gcggcagcgg	cagctggccg	aggaagacgc	ggcgcggcag	5640
cgggccgagg	cggagcgggt	gcttgcggag	aagctggccg	ccatcgccga	ggccacgcgg	5700
ctcaagacgg	aggcggagat	cgcgctcaag	gagaaggagg	cggagaacga	gcgcctgcgg	5760
cggttgccgg	aggacgaggc	cttccagcgg	cggcggctgg	aggagcaggc	cgcccaacac	5820
aaggttgaca	tcgaggagcg	cctggcccag	ctgcgcgaag	catcgacag	cgagctggag	5880
cggcagaagg	ggctgggtgga	ggacacgctg	aggcagcggc	ggcaggtgga	ggaagagatc	5940
ctggcgctga	aggcagctt	cgagaaggcg	gccgtgggca	aggcggagct	ggagctggag	6000
ctgggacgca	tcgcgagcaa	cgccgaggac	acgctgcgca	gcaaggagca	ggccgagctg	6060
gaggctgcga	ggcagcggca	gctggcggcg	gaggaggagc	ggcggcggcg	tgaggctgag	6120
gagcgcgtgc	agaagagcct	ggcggccgag	gaggaggccg	cacggcagcg	gaaggcggcg	6180

ctggagggaag	tcgagcggt	gaaagccaag	gtggaggagg	cgcgccgcct	gcgggagcga	6240
gcggagcagg	agtcggcgcg	gcagctgcag	ctggcccagg	aggccgcccc	gaagcggtcg	6300
caggcggaag	agaaggcaca	cgcttccgcg	gtgcagcaga	aggagcagga	gctacagcag	6360
acgtgcagc	aggagcagag	cgtgctggac	cagctgcgcg	gcgaggcggg	ggcgcccg	6420
cggcgcgctg	aggagggcgg	ggaggccccg	gtgcaggcgg	agcgtgaggg	ggcgagctcc	6480
cggcgccagg	tggaagaggg	cgagcggtcg	aagcagtcgg	cagaggagca	ggcacaggcc	6540
cgggctcagg	cacaggcgcc	tgacagagaag	ctgcgcaagg	aggccgagca	agaggcgcca	6600
cggcgggcac	aggcgagca	ggcgccctcg	cggcagaagc	aggcagctga	cgcgagatg	6660
gagaagcata	agaaattcgc	cgagcagacg	ctgcggcaga	aggcgagggt	ggagcaggag	6720
ctgacaacac	tgcggtctaca	gctggaggag	accgaccacc	agaagaacct	gctggacgag	6780
gagctgcagc	ggctgaaggc	ggaggccacg	gaggccgcac	gccagcgag	ccaggtggag	6840
gaggagctct	tctcggtcg	cgtgcagatg	gaggagctga	gcaagctcaa	ggcacgcac	6900
gaggctgaga	accgcgcat	catcttgctg	gacaaggaca	atacgagcg	cttctgagc	6960
gaggagctcg	agaagatgaa	gcaggtggcg	gaggaggccg	cgcggtgag	tgtggcgcc	7020
caagaggctg	cgcgactcg	gcagctggca	gaggaggacc	tgccacagca	gcgggccttg	7080
gcagagaaga	tgctcaagg	gaagatgcag	gcggtgcagg	aggccacgcg	actcaaggct	7140
gaggcggaac	tgctgcagca	gcagaaggag	cttgccgagg	agcaggcgcg	gcggtgcag	7200
gaggacaagg	actagatggc	gcagcagctg	cgcgaggaga	cgagggtctt	ccagcgagac	7260
ctggaggccg	agcggcagcg	gcagctggag	atgagcgctg	aggctgagcg	cctcaagctg	7320
cgtgtggccg	agatgagccg	agcccaggcc	cgcgctgagg	aggacgcccc	gcgcttcccg	7380
aagcaggcgg	aggagatcgg	tgagaagctg	caccgcacgg	agctcgccac	ccaggagaag	7440
gtgacctgg	tgacacact	ggagatccag	cgacagcaga	gtgaccatga	tgccgagcgc	7500
ctgcgggagg	ccatcgctga	gctggagcgt	gagaaggaga	agctccaaca	ggaggccaaa	7560
ctgctgcagc	tcaagtctga	ggagatgcag	acggtgcagc	aggagcagct	gctgcaggag	7620
acgcaggccc	tgacgcaag	cttctctctt	gaaaaggaca	gcctgctaca	gcgggagcgc	7680
ttcatcgagc	aggagaaggc	caagctggag	cagctcttcc	aggacgaggt	ggccaaggca	7740
ctcagctgc	gtgnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnng	acggcagcgg	7800
ctggtggcca	gcatggagga	ggcgcgccg	cggcagcatg	aggccgagga	gggctgctcg	7860
cgcaagcagg	aggagctgca	gcagctggag	cagcagcgcc	ggcagcagga	ggagctgctg	7920
gctgaggaga	accagaggct	gcgtgagcag	ctgcagctcc	tggaggagca	gcaccggggc	7980
gcgtggcgcg	actcagagga	ggtcactgcc	tcgcagggtg	ctgccacaaa	gacctgccc	8040
aatggccggg	atgcacttga	tggccccg	gcagaggcag	agccggagca	cagcttcgat	8100
ggcctgcggc	ggaagggtgt	agctcagagg	ctgcaggagg	ccggcatcct	gagtgcgag	8160
gagctgcagc	ggttggcgca	gggcccacac	acggtggacg	agctcgacag	gcggggaagac	8220
gtgcgacct	acctgcagg	ccgcagcag	atcgaggggc	tggtgctgaa	ggccaccaat	8280
gagaagctga	gtgtttacg	cgccctgcag	aggcagctgc	tgagtcccg	cacggccctc	8340
atcctgctgg	aggcgagggc	ggcctcaggc	ttcctgctgg	accctgtgcg	gaaccggcgg	8400
ctgaccgtca	acgaggctgt	gaaggagggt	gtggtggggc	ccgagctgca	ccacaagctg	8460
ctgtcgccg	agcgcgccgt	cactggctac	aaggacccct	acactggcca	gcagatctct	8520
ctcttccaag	tcctgcagaa	gggctcctc	gtccgggagc	acggcatccg	cctgctggag	8580
gccagatcg	ccacggcgcg	cgttatcgac	cccgtgcaca	gccaccgctg	ggcctgggac	8640
gtggcctacc	ggcgcggtca	cttcgacgag	gagatgaacc	gcgtcctggc	ggaccccagc	8700
gacgacacca	agggtctctt	tgacccccac	acgcagcaga	acctcacgta	cctgcagcta	8760
ctggagcgct	ccgtggagga	cccgcagacg	ggcctgtgcc	ttctgccact	cacggataag	8820
gctgccaagg	gcggggagct	ggtctacact	gactccgagg	cccgggagct	ctttgagaag	8880
gccaccgtgt	ctgcgcccgt	cggaagttc	caggggcaag	acggtgacca	tttgggagat	8940
catcaactcg	gaatacttca	cggcagagca	gcggcgggac	ctgctgcggc	agttccgcac	9000
gggcccggat	acagtggaga	agatcatcaa	gatcatcatc	acggtggtgg	aggagcagga	9060
gcagaagggc	cggctttgct	ttgagggcct	gtgcagcctg	gtgccagccg	ccgagctgct	9120
ggagagcagg	gtcatcgacc	gcgagctcta	ccagcagctg	cagcgagggtg	agcgctctgt	9180
gcgagacgta	gccgaggtgg	acactgtgcg	gcgggctctc	cggggtgcca	acgtcatcgc	9240
gggtgtatgg	ctggaggagg	cggggcagaa	gctgagtatc	tacaatgcc	tgaagaaaga	9300
cctgctgcc	tcgcacatgg	ccgtggccct	gttggaaagc	caggccggca	ccgggcacat	9360
catcgacccc	gccaccagcg	cccggctgac	cgtggacgag	gcagtgcgtg	ctggcctggt	9420
gggcccggag	tttcatgaga	agctgctatc	agccgagaag	gctgtgacag	ggtacaggga	9480
cccctacaca	gggcagagcg	tctccctggt	ccaggccctg	aagaagggcc	tcattccccg	9540
ggagcagggc	ctgcgcctgt	tggaagccca	ctgtccacg	ggcgccatcg	tggaccccag	9600
caagagccac	cgcgtgcccc	tggatgtcgc	ctgcgcccga	ggctgcccgg	atgaggagac	9660
cagcaggggc	ctgtcgccac	caagggccga	cgccaaggcc	tacagtgacc	ccagcacagg	9720
ggagccggcc	acctacggcg	agctccagca	gcggtgcccg	cccagaccagc	tgaccgggct	9780
gagcctgctg	ccgctctcag	aaaaggctgc	tcggggcccg	caggaggagc	tctactcaga	9840
gctgcaggcc	cgtgagacct	ttgaaaagac	ccgggtgag	gtccccgtgg	gtggcctcaa	9900
gggcaggacg	gtgacggtgt	gggagctcat	cagctctgag	tacttcaactg	cggagcagcg	9960
gcaggagctg	ttgcgtcagt	tccgcacggg	caaggtcacc	gtggagaagg	tcataagat	10020
tctcattacc	atcgtggagg	aggtggagac	cctgcggcag	gagaggctgt	ccttcagcgg	10080
cctccgtgcc	cctgtgccag	ccagcgagct	cctggcttcc	ggggtctca	gcagagccca	10140
gtttgagcag	ctcaaggacg	gcaagacgac	ggtcaaggac	cttccggagc	tgggctccgt	10200

goggacgctg	ctgcagggca	gtggctgect	cgccggcatc	tacctggagg	acaccaagga	10260
gaaggtgtcc	atctacgagg	ccatgcgcgc	gggcctgctg	agagccacaa	cggctgcgct	10320
cctgctggag	gocgaggcgg	ccactggcct	cctggtggac	cccgtgcgga	accagcgcct	10380
gtatgtccac	gaggccgtga	aggcgggcgt	ggtgggcccc	gagcttcacg	agcagctgct	10440
gtctgcggag	aaggccgtca	ccggctacag	agacccttac	tcgggcagca	ccatctccct	10500
cttcacggcc	atgcagaagg	gcctggttct	ccggcagcac	ggcatccgcc	tgctggaggc	10560
ccagatcgcc	acgggcggca	tcacgcaccc	cgtgcacagc	caccgcgtgc	ctgtggacgt	10620
ggcctaccag	cgggctact	tcagtggaga	gatgaaccgc	gtcctggcgg	acccagcgca	10680
cgacaccaag	ggcttctttg	accccaacac	gcatgagaac	ctcacgtaca	ggcagctgct	10740
ggagcgggtg	gtggaggacc	ccgagacggg	cctgcgcctt	ctgccactga	aaggggcgga	10800
gaaggtgtag	gtggtggaga	ccacgcaggt	gtacactgag	gaggagacaa	gaagggcatt	10860
tgaagagaca	cagatcgaca	ttcccggcgg	cggcagccac	ggcggctcca	ccatgtccct	10920
gtgggagggt	atgcatccg	acctgatccc	cgaggagcag	cgggcccagc	tgatggctga	10980
cttcacggcc	ggcgggtga	ccaaggaaacg	nnnnnnnnnn	nnnnnnnnnn	nnnnnnntga	11040
gaagacagag	atcatccgcc	agcagggtct	ggcctcctac	gactacgtgc	gcccgcgcct	11100
cacggctgag	gacctgttcg	aggctcggat	catctctctc	gagacctaca	acctgtctcg	11160
ggagggcacc	aggagcctcc	gtgaggctct	cgaggcggag	tccgcctggt	gctacctcta	11220
ttgcacgggc	tcogtggctg	gtgtctacct	gcccggttcc	aggcagacac	tgagcatcta	11280
ccaggccctc	aagaaagggc	tgctgagtgc	cgaggtggcc	cgctctgtgc	tggaggcaca	11340
ggcagccaca	ggcttctctg	tggaccgggt	gaagggggag	cggctgactg	tggatgaggc	11400
tgtgcggaag	ggcctcgtgg	ggccccgagc	gcacgaccgc	ctgctctcgg	ctgagcgggc	11460
ggtcacgggc	taccgtgacc	cctacaccga	cgagaccatc	tcgctcttcc	aggccatgaa	11520
gaaggagctg	atccctactg	aggaggccct	gcggctgctg	gatgccacgc	tggccaccgg	11580
cggcatcgtg	gacccccgcc	tgggcttcca	ccttcccctg	gaggtggctt	accagcgtgg	11640
ctacctcaac	aaggacacgc	acgaccagct	gtcagagccc	agcaggtgct	gcagctacgt	11700
ggaccctgcc	accgacgagc	gctcagcta	cacgcagctg	ctcaggcggg	gccgtcgtga	11760
cgacggcacc	caggccatga	tcctgccaact	gtcggacgcc	cgcaagctga	ccttcctgtg	11820
cctgcggaag	cagatcacca	tggaggagct	ggtgcgctcg	caggtcatgg	acgaggccac	11880
ggcgctgcag	ctgcgggagg	gcctgacctc	catcgaggag	gtcaccaaga	acttgacaga	11940
gttctctgaa	ggcaccagct	gcacgcgtgg	tgtcttcgtg	gacgccacca	aggaacgggt	12000
cctgcgtgtac	agaagggcat	agacggccac	gcccgcctcc	ggcacagcct	ttgagctcct	12060
ggagggcgag	gcccgcaccg	gttacgtcat	cgaccccatc	aagggactga	agctgacggg	12120
ggaggaggct	gtgcgtatgg	gcatttgtgg	ccccgagttc	aaggacaagc	tgctgtcggc	12180
cgagcgcgcc	gtcactgggt	acaaggaccc	ctactctggg	aagctcatct	ccctcttcca	12240
ggccctgaag	aagggcctga	tcctgaagga	ccatggcatc	cgctctgtgg	aggcccagat	12300
ggccacgggc	ggcatcatcg	acccctgagga	gagccaccgg	ctgcccgtgg	agggtggccta	12360
caagcgcggc	ctcttcgatg	aggagatgaa	cgagatcctg	accgaccctc	cggacgacac	12420
caagggcttc	tttgacccta	acacggagga	gaacctcacc	tacctgcagc	tgatggagcg	12480
ttgtatcact	gacccccaga	cgggcctgtg	tctcttgccg	ctgaaggaga	agaagcggga	12540
gcggaagacg	tctccaagt	cctccgtgcg	caagcgccga	gtggtcatcg	tggaccccg	12600
gacgggcaag	gagatgtcag	tgtacgaggc	ctaccgcaag	ggcctgattg	accaccagac	12660
gtacctggag	ctgtccgagc	aggagtgcga	gtgggaggag	atcaccatct	cctcctcgga	12720
cggcgtgggc	aagtccatga	tcacgcacgc	ccgctccggg	cgccagtacg	acatcgatga	12780
tgccatcgcc	aagaacctca	tcgaccgctc	ggcaccggc	cagtaaccgc	ccggcacgct	12840
ctccatcacc	gagttcgccg	acatgctctc	gggcaacgcc	ggtggtttcc	gctcccgttc	12900
ctcctcggtg	ggatcctcct	cctcctaccc	catcagcccc	gccgtctcca	ggaccacgct	12960
ggcctcctgg	tcagacccca	ctgaggagac	gggccccgtg	gctggcatcc	tggacacgga	13020
ggcgctggag	aaggtgtcca	tcaccgaggc	catgcaccgg	aacctggtgg	ataacatcac	13080
gagggcagcg	ctgctggagg	cgcaggcctg	caccgggggc	atcatcgacc	ccagcaccgg	13140
tgagcgcttc	cctgtcaccg	acgccgtcaa	caagggcctg	gtggacaaga	tcattggtgga	13200
ccgcataaac	ctggcccaga	aggcctttctg	cggcttcgag	gaccacgcga	ccaagaccaa	13260
gatgtcggcc	gcccaggccc	tgaagaaggg	ctggtctctac	tacgaggccg	gccagcgctt	13320
cctggagggtg	cagtaacctga	ccggcgggctt	gatcgagccc	gacacgcggg	gccgcgtgcc	13380
cctggacgag	gccttcgagc	gcggcacggg	ggacgcccgc	accgcacaga	agctgcgtga	13440
cgtgggcgcc	tactccaagt	acctcacctg	ccctaagacc	aagctcaaga	tctcctataa	13500
ggagcgcgtg	gaccgcagca	tgggtggagga	gggcacgggg	ctgcccgtgc	tggaggctgc	13560
cgcgcagtc	accagggcct	actacagccc	ctacagcgct	agcggctccg	gctctaccgc	13620
tggctcccgc	accggctcgc	gcaccggctc	ccgggcccgc	tcccgcgcgc	gcagctttga	13680
cgcacccggc	tccggcttct	ccatgaacctt	ctcttcaccc	tctactcctc	cctcgggcta	13740
cggccgcgcg	taegcctcgg	ggtcctcggc	ctccttgggg	ggccctgagt	ctgcctgggc	13800
ctgaggctgc	ctgcgcccac	cccgtctctg	atgcggccca	gcccggctcc	caccgaggcg	13860
cgggggcccgt	tttcaacgct	ttaaaggtgct	ttctcccaa	gtggtgccta	aagtttaacc	13920
aaaaagacca	gactaatata	ttaatatata	tctgtgtctc	agacagcctg	tatcttgggg	13980
gacagggtcg	gcccagccct	gctggccgc	tcacccctc	gggtctcctc	actcccttct	14040
acctgccact	cacacagcca	ggtgccttgg	agggtcccaa	gctgggcccc	agcccaccct	14100
cctgtcttcc	cagggtagcc	cgctgttagc	tcctagctgc	acagggcagc	tgggcccacc	14160
cctgtctgta	gagggcctg	gtgtttctag	cactggcctg	cacggtgggc	cttgtggggg	14220

```

acggggggcc ccagtcagcc tctctccag tctaccaga gaagcccctt ccccatggga 14280
agacgaggcc ctggggccca gccccacag tctgtctga tctgtgcttt ccagctcacc 14340
ccccacactc actcctgaga cccctggcct ccggcgctag cctccagcct ctgttcccc 14400
agtaagtgcc ttccatgtcg gctctaac ccaggcccc aggaccaga cccagtgggg 14460
aggcgagcgt tccagccggt atggctggga actgcagacc tgtcctcctg gtgggtccag 14520
gggcccctcc agcttgtgga gccccacact ggggtgccc ctgcccgtct ctctcccatg 14580
gagccccagc cccctttggg cccagggaca ccagccaggc tctgtgctga cctcctgtt 14640
gcaccagcc ctgggtctcag cagcgaccac cctgcctcc accctccag ctttgcattg 14700
tccactaacc ccggggcggt ggcaggtgga ggtgtcaggc tgctggcgcc tctgcaaggg 14760
cagaacacta acctgaccgt gggcggggcc ttgcggtatc cgccccaat aaaagcaatt 14820
ccaaccttac acacc 14835

```

<210> 114

<211> 2433

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 350480.6

<400> 114

```

gaaacttctt gcccttttag gtgccacttc ccagatggga agtcttcttg gtggggaaga 60
ggaggagtgg gcaacaagg gatacctccat ggtgggagga atgggcttga agttgtgtgt 120
cctaagctgt ggagaccaa tcagaaattc cttggacccc aaaggccttt gggaaccaga 180
gcactaaagg agtggggagg tgcagacact ggctggggaa caggaaattg ggggtgcagcc 240
cccttgggtgc ttctgcccc tgccctaccc tgcctgagtag cctgactct gcagggattg 300
gggtgaccct gttcattgac ctgtatgact atgaggctcg aactgaggat gacctacct 360
tcaccaagg cgagaagttc cacatcctga acaatactga aggtgactgg tgggaggctc 420
ggtctctcag ctccggaaaa actggctgca ttcccagcaa ctacgtggcc cctgttgact 480
caatccaagg tgaagagtg tactttggaa agattgggag aaaggatgca gagaggcagc 540
tgctttcacc aggcaacccc cagggggcct ttctcattcg ggaaagcgag accaccaaaag 600
gtgcctactc cctgtccatc cgggactggg atcagaccag aggcgatcat gtgaagcatt 660
acaagatccg caaatggac atgggcccgt actacatcac cacacgggtt cagttcaact 720
cggtgcagga gctggtgca cactacatgg aggtgaatga cgggctgtgc aacctgctca 780
tcgcgccctg caccatcatg aagccgcaga cgctgggccc ggccaaggac gcctgggaga 840
tcagccgcag ctccatcacg ctggagcgcc ggtcgggcac cggctgcttc ggggatgtgt 900
ggctgggcac gtggaacggc agcactaagg tggcggtgaa gacgtgaag ccgggcacca 960
tgtcccgaa ggccttctc gaggagcgcc gctgctgagg gctgctgagg cagacaaggc 1020
tggtgcagct gtacgcctg gtgtcggagg agcccatcta catcgtgacc gagttcatgt 1080
gtcacggcag cttgctggat ttctcaaga acccagaggg ccaggatttg aggctgcccc 1140
aattggtgga catggcagcc caggtagctg agggcatggc ctacatggaa cgcataact 1200
acattcacga gcacctgagg gcagccaaca tcctgggttg ggagcggctg gcgtgcaaga 1260
tcgcagactt tggcctggcg cgtctcatca aggcagatga gtacaacccc tgccaagggt 1320
ccaagtccc catcaagtgg acagcccagc aagctgccct ctttggcaga ttcaccatca 1380
agtcagacgt gtggtccttt gggatcctgc tcactgagct catcaccaag ggccgaatcc 1440
cctaccagg catgaataaa cgggaagtgt tggaacaggg ggagcagggc taccacatgc 1500
cgtgccctcc aggtgcccc gcatccctgt acgaggccat ggaacagacc tggcgtctgg 1560
acccggagga gaggcctacc ttcgagtacc tgcagtccct cctggaggac tacttcacct 1620
ccgtgaacc acagtaccag cccggggatc agacatagcc tgtccgggca tcaacctct 1680
ctggcggtgg ccaccagtc cttgccaatc ccagagctgt tcttccaaag ccccaggct 1740
ggcttagaac cccatagagt cctagcatca ccgaggacgt ggctgctctg acaccaccta 1800
gggcaacctc cttgttttac agatggggca aaaggaggcc cagagctgat ctctcatccg 1860
ctctggcccc aagcactatt tcttcccttt ccacttaggc cctacatgc ctgtagcctt 1920
tctcactcca tccccacca aagtgtctag acctgtctta gttatttata aaactgtatg 1980
tacctccctc acttctctcc tatcactgct ttctactct ccttttatct cctctagtc 2040
caggtgccaa gaatttccct tctacctct attctctgt gtcgttaagt tacaaagtca 2100
ggaaaagtct tggctggacc ccttctctgc tgggtggatg cagtgggtcca ggactggggg 2160
ctgggcccag gtttgaggga gaagggtgca gacacttcc cactctcttg aatagtgtgt 2220
atgtgttggg ttattgatc tgtaataaag taaatgaca atatgaatcc tcaaaccatg 2280
aaataccctt gaaccttct ttgggagcgg ggtgtgtcaa taggggtgga acggacagat 2340
atggctacag gcagcagcag gggaagctgg agaggccct aatgcctacc aagcacgggg 2400
catccaagggt gtggagtttt agaaccacca gag 2433

```

<210> 115

<211> 1921

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 350521.15

<400> 115

```
cccgcacatct ctgcgcccac aaaatacacc gacgatgccc gatctacttt aagggctgaa 60
acccacgggc ctgagagact ataagagcgt tccctaccgc catggaacaa cggggacaga 120
acgccccggc cgcttcgggg gcccggaaaa ggcacggccc aggaccagg gaggcgagg 180
gagccaggcc tgggctccgg gtccccaaga cccttggtgt cgttggtgcc gcggtcctgc 240
tgttggtctc agctgagtct gctctgatca cccaacaaga cctagctccc cagcagagag 300
cggcctccca acaaaaagag tccagccct cagagggatt gtgtccacct ggacaccata 360
tctcagaaga cggtagagat tgcattctct gcaaatatgg acaggactat agcactcact 420
ggaatgacct ccttttctgc ttgcgctgca ccagggtgtg ttcagggtgaa gtggagctaa 480
gtccctgcac cagcaccaga aacacagtgt gtcagtgcga agaaggcacc ttccgggaag 540
aagattctcc ttgagtctgc cgggaagtgc gcacaggggtg tcccagaggg atggtaagg 600
tcggtgattg tacacctgg agtgacatcg aatgtgtcca caaagaatca ggtacaaagc 660
acagtgggga agccccagct gtggaggaga cggtgacctc cagcccaggg actcctgcct 720
ctcctgttcc tctctcaggc atcatcatag gagtcacagt tgcagccgta gtcttgattg 780
tggctgtgtt tgtttgcaag tctttactgt ggaagaaagt ccttccttac ctgaaaggca 840
ttcctcagg ttggtggtggg gacctgagc gtgtggacag aagctcaca cgcacctggg 900
ctgaggacaa tgtcctcaat gagatcgtga gtatcttgca gccacccag gtccctgagc 960
aggaatgga agtccaggag ccagcagagc caacagggtg caacatgttg tccccgggg 1020
agtcagagca tctgctggaa ccggcagaag ctgaaaggtc tcagaggagg aggtctctgg 1080
ttccagcaaa tgaaggtgat cccactgaga ctctgagaca gtgcttcgat gactttgcag 1140
acttggtgcc ctttgactcc tgggagccgc tcatgaggaa gttgggcctc atggacaatg 1200
agataaaggt ggctaaagct gaggcagcgg gccacaggga cacctgttac acgatgtga 1260
taaagtgggt caacaaaacc gggcgagatg cctctgtcca caccctgctg gatgccttg 1320
agacgtctgg agagagactt gccaaagcaga agattgagga ccactgttg agctctggaa 1380
agttcatgta tctagaaggt aatgcagact ctgccatgtc ctaagtgtga ttctcttcag 1440
gaagtcaaac cttccctggt ttaccttttt tctggaaaaa gcccaactgg actccagtca 1500
gtaggaaagt gccacaattg tcacatgacc ggtactggaa gaaactctcc catccaacat 1560
caccagtggt atggaacatc ctgtaacttt tcaactgcact tggcattatt tttataagct 1620
gaatgtgata ataaggacac taaaaaata atgccaaagt ctctggaaag ttcatgtatc 1680
tagaaggtaa tgcagactct gccatgtcct aagtgtgatt ctcttcagga agtcagacct 1740
tccttggttt accttttttc tggaaaaagc ccaactggac tccagtcagt aggaaagtgc 1800
cacaattgtc acatgaccgg tactggaaga aactctccca tccaacatca cccagtggtat 1860
ggaacatcct gtaacttttc actgcacttg gcattatttt tataagctga atgtgataat 1920
a
```

<210> 116

<211> 1609

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 445076.9

<220>

<221> unsure

<222> 446-467, 1177, 1334-1467

<223> a, t, c, g, or other

<400> 116

```
cagtatccct cctgacaaaa ctaacaaaaa tccgtgttagc caaataatca gccacattca 60
tatttacggt caaagttttt atcctcattt tacagcagtg gagagcgatt gcccgggtgc 120
ccacgttagg aagagagaga actgggattt gcacccaggc aatctgggga cagagctgtg 180
atcacaactc catgagtcag ggccgagcca gcccttcac caccagccgg ccgcgccccg 240
ggaagggaagt ttgtggcgga ggagggtcgt ggggaggag ggggaggcgc ccacgcatct 300
ggggctgact cgctctttcg caaaactgtc gggaggagtc cctggggcca caaaactgcc 360
tccttcctga ggccagaagg agagaagacg tgcagggacc ccgcgcacag gagctgcct 420
cgcgacatgg gtcaccggcc gctgcnnnnn nnnnnnnnnn nnnnnnnaca cctgcgtccc 480
agcctcttgg ggcctgcggt gcatgcagtg taagaccaac ggggattgcc gtgtggaaga 540
gtgcgccctg ggacaggacc tctgcaggac cagcatcgtg cgttggtggg aagaaggaga 600
agagctggag ctggtggaga aaagctgtac ccactcagag aagaccaaca ggaccctgag 660
```

```

ctatcggaact ggcttgaaga tcaccagcct taccgaggtt gtgtgtgggt tagacttgtg 720
caaccagggc aactctggcc gggctgtcac ctattccga agccgttacc tcgaatgcat 780
ttctgtggc tcatcagaca tgagctgtga gaggggccc caccagagcc tgcagtgccg 840
cagccctgaa gaacagtgc tggatgtggt gacctactgg atccaggaag gtgaagaagt 900
cctggagctt gaaaatctgc cgcagaatgg ccgccagtgt tacagtgcga aggggaacag 960
caccatgga tgctcctctg aagagacttt cctcattgac tgccgaggcc ccatgaatca 1020
atgtctggtg gccaccggca ctcacgaacc gaaaaaccaa agctatatgg taagaggctg 1080
tgcaaccgcc tcaatgtgcc aacatgccc aactgggtgac gccttcagca tgaaccacat 1140
tgatgtctcc tgctgtacta aaagtggctg taaccancca gacctgggtg tccagtaccg 1200
cagtggggct gctcctcagc ctgggcctgc ccattctcagc ctcaccatca ccctgctaata 1260
gactgccaga ctgtggggag gcaactctcct ctggaccta aacctgaaatc cccctctctg 1320
ccctggctgg atcnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1380
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1440
nnnnnnnnnn nnnnnnnnnn nnnnnnnncag aagagaaaag ctggaggaag gccgtgggca 1500
atgggagagc tcttgttatt attaatattg ttgccgtgt tgtgtgtgtg ttattaatta 1560
atattcatat tatttatttt atacttacat aaagattttg taccagtgg 1609

```

<210> 117

<211> 3224

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 995028.4

<400> 117

```

caagaacgcc cccaaaatct gtttctaatt ttacagaaat cttttgaaac ttggcacggt 60
attcaaaagt ccgtggaaag aaaaaaacct tgtcctggct tcagcttcca actacaaaga 120
cagacttggg ccttttcaac ggttttcaca gatccagtga cccacgctct gaagacagaa 180
ttagctaact ttcaaaaaca tctggaaaaa tgaagacttg ggtaaaaatc gtatttggag 240
ttgccacctc tgctgtgctt gccttattgg tgatgtgcat tgtcttacgc ccttcaagag 300
ttcataactc tgaagaaaat acaatgagag cactcacact gaaggatatt ttaaattggaa 360
cattttctta taaaacattt ttccaaact gattttcagg acaagaatat cttcatcaat 420
ctgcagataa caatatagta ctttataata tgtaaacagg acaatcatat accattttga 480
gtaatagaac catgaaaagt gtgaatgctt caaattacgg cttatcacct gatcggcaat 540
ttgtatatct agaaagtgat tattcaaagc tttggagata ctcttacaca gcaacatatt 600
acatctatga ccttagcaat ggagaatttg taagaggaaa tgagcttctc cgtccaatc 660
agtattttatg ctggtcgctt gttgggagta aattagcata tgtctatcaa aacaatatct 720
atttgaaca aagaccagga gatccacctt ttcaaataac atttaattgga agagaaaata 780
aaatatttaa tggaatccca gactgggttt atgaagagga aatgcttctc acaaaatatg 840
ctctctgggtg gtctcctaata ggaaaatttt tggcatatgc ggaatttaata gataaggata 900
taccagttaa tgcttattcc tattatggcg atgaacaata tcctagaaca ataaatatct 960
catacccaaa ggctggagct aagaatcccg ttgttcggat atttattatc gataccactt 1020
accttgcgta tgtaggtccc caggaagtgc ctgttccagc aatgatagcc tcaagtgatt 1080
attatttcag ttggctcagc tgggttactg atgaacgagt atgtttgcag tggctaaaaa 1140
gagtcagaaa tgtttcggtc ctgtctatat gtgacttcag ggaagactgg cagacatggg 1200
attgtccaaa gacctagag catatagaag aaagcagaac tggatgggct ggtggattct 1260
ttgtttcaac accagttttc agctatgat ccatttcgta ctacaaaata tttagtga 1320
aggatggcta caaacatatt cactatatca aagacactgt ggaatatgct attcaaatta 1380
caagtggcaa gtgggagggc ataaatatat tcagagtaac acaggattca ctgttttatt 1440
ctagcaatga atttgaagaa taccctggaa gaagaaacat ctacagaatt agcattggaa 1500
gctatcctcc aagcaagaag tgtgttactt gccatctaag gaaagaaagg tgccaatatt 1560
acacagcaag tttcagcgac taocccaagt actatgcact tgtctgctac ggcccaggca 1620
tccccatttc cacccttcat gatggacgca ctgatcaaga aattaaatc ctggaagaaa 1680
acaagggaatt ggaaaatgct ttgaaaaata tccagctgcc taaagaggaa attaagaaac 1740
ttgaagtaga tgaaattact ttatggtaca agatgattct tcctcctcaa tttgacagat 1800
caaagaagta tcccttgcta attcaagtgt atgggtggcc ctgcagtcag agtgtaagg 1860
ctgtatttgc tgtaatttgg atatcttata ttgcaagtaa ggaagggatg gtcattgcct 1920
tgggtggatg tcgaggaaca gctttccaag gtgacaaact cctctatgca gtgtatcgaa 1980
agctgggtgt ttatgaagt ttagactatg ttacagctgt cagaaaaatc atagaaatgg 2040
gtttcattga tgaaaaaaga atagccatat ggggctgggt ctatggagga tacgtttcat 2100
cactggccct tgcatctgga actgggtctt tcaaatgtgg tatagcagtg gctccagtct 2160
ccagctggga atattacgcg tctgtctaca cagagagatt catgggtctc ccaacaaagg 2220
atgataatct tgagcactat aagaattcaa agagcagaa tatttcagaa 2280
atgtagacta tcttctcatc cacggaacag cagatgataa tgtgcacttt caaaactcag 2340
cacagattgc taaagctctg gttaatgcac aagtggattt ccaggcaatg ttgtactctg 2400

```


accagaacca	eggcttatcc	ggcctgtcca	cgaaccactt	atacaccac	atgaccact	2460
tcctaaagca	gtgtttctct	ttgtcagact	aaaaacgatg	cagatgcaag	cctgtatcag	2520
aatctgaaaa	ccttatataa	accctcaga	cagtttgctt	atttatttt	ttatgttgta	2580
aaatgctagt	ataaacaac	aaattaatgt	tgttctaaag	gctgttaaaa	aaaagatgag	2640
gactcagaag	ttcaagctaa	atattgttta	cattttctgg	tactctgtga	aagaagagaa	2700
aagggagtca	tgcattttgc	tttgacaca	gtgttttctc	acctgttcat	ttgaagaaaa	2760
ataataaagt	cagaagttca	gccctgagat	tcttactact	gatgagaaca	ttatctggat	2820
atgccccaaa	attttttaggc	aaatgaaagc	taccaattta	aagttacgga	atctaccatt	2880
ttaaagttaa	ttgctttgtca	agctcagatg	tctttactgt	gaatgaggga	gagaaacgct	2940
aaagcacaga	aatgttcaga	accaaagagc	tggatcactc	atgcttctag	aaaagacatt	3000
ggcatctctc	cattgtctcat	ctactgtgcc	tggcacagcc	ttattttcta	gctttctgaa	3060
tgtgagttcc	atccatatcc	tttgcataac	ggtggtactg	ggctgtggag	agcttggaat	3120
gtgtgtccat	ggggaaatgg	gctgttctgg	ttattataaa	acggccaagg	gagggctcca	3180
tggcacacct	ctgagtaacc	caggacactc	ctgtttggga	aatg		3224

<210> 118

<211> 3887

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 245008.4

<400> 118

cgcgtttcct	gacgcgagat	acgcgcctgc	cgcggggcgc	cccaggcggc	gatgacacgg	60
cgcgcgcggc	ggcccgagg	cgcgggtgg	gccgtttgct	gaccggatcg	cggctaccgg	120
ccagcgtgtc	cgcggcgccg	ccgccagcat	gggctgtgcc	ccgagcatcc	acatttccga	180
gcgcctggtg	gccgaggacg	cgcctagccc	cgcggcaccc	gccgctgtcg	tccggcgggc	240
cgcgcctccc	gcaggcccag	aagacggcgc	ccttgccccg	gaccccgggc	gccggcctct	300
tggagtccga	gcttcgcgac	ggcagcgcca	agaaggtagc	agtagctgat	gtgcagtttg	360
gccccatgag	atttcatcaa	gatcaacttc	aggtactttt	agtgtttacc	aaagaagata	420
accaatgtaa	tggattctgc	aggcatgtgt	aaaaagcagg	gtttaagtgt	acagttacca	480
aggaggctca	ggctgtcctt	gcctgtttcc	tggacaaaca	tcatgacatt	atcatcatag	540
accacagaaa	tcttcgcagc	ctggatgcag	aggcactgtg	caggtctatc	agatcatcaa	600
aactctcaga	aaacacagtt	attgttgggt	tgtagcgcag	ggtggataga	gaagagttgt	660
ccgtaatgcc	tttcattttc	gctggattta	caaggaggta	tgtagaaaac	cccaacatca	720
tggcctgcta	caatgaactg	ctccagctgg	agtttggaga	ggtgcgatca	caactgaaac	780
tcagggcttg	taactcagta	ttcactgcac	tagaaaacag	tgaagatgca	attgaaatta	840
caagcgaaga	ccgttttata	cagtatgcaa	atcctgcatt	tgaacaaca	atgggctatc	900
agtcagggtg	attaataggg	aaggagttag	gagaagtgcc	tataaatgaa	aaaaaggctg	960
acttgctcga	tactataaat	tcatgcatca	ggataggcaa	ggagtggcaa	ggaatttact	1020
atgccaaaaa	gaaaaacgga	gataatatac	aacaaaatgt	gaagataata	cctgtcattg	1080
gacaggagga	aaaaattaga	cactatgtgt	ccattatcag	agtgtgcaat	ggcaacaata	1140
aggctgagaa	aatatccgaa	tgtgttcagt	ctgacactca	tacagataat	cagacaggca	1200
aacataaaga	caggagaaaa	ggctcactag	acgtcaaagc	tgttgccctc	cgtgcaactg	1260
aagtttccag	ccagagacga	cactcttcca	tggcccggtg	acattccatg	acaattggag	1320
cgcccatcac	caaggtaatc	aatattatca	atgctgcccc	ggaaagttag	cccatgcctg	1380
tgacagaagc	cctagaccgt	gtgctggaaa	ttctaagaac	cactgagtta	tattcaccac	1440
agtttgggtg	taaagatgat	gatccccatg	ccaatgacct	tgttgggggc	ttaatgtctg	1500
atggtttgcg	aagactatca	gggaatgaat	atgttctttc	aacaaaaaac	actcaaattg	1560
tttcaagcaa	tataatcact	cccattctccc	ttgatgatgt	cccaccacgg	atagctcggg	1620
ccatggaaaa	tgaggaatac	tgggactttg	atatttttga	actggaggct	gccaccacac	1680
ataggccttt	gatttatctt	ggtctcaaaa	tgtttgcctg	ccttggaatc	tgtgaattct	1740
tacactgttc	cgagtcaacg	ctaagatcat	ggttacaaat	tatcgaagcc	aattatcatt	1800
cctccaatcc	ctaccacaat	tctacacatt	ctgctgatgt	gcttcatgcc	actgcctatt	1860
ttctctccaa	ggagaggata	aaggaaactt	tagatccaat	tgatgaggtc	gctgcactca	1920
tcgcagccac	cattcatgat	gtggatcacc	ctgggagaa	caactccttc	ctgtgtaatg	1980
ctggaagtga	gctggccatt	ttgtacaatg	acactgctgt	gctggagagc	caccatgagg	2040
ccttggcctt	ccagctgacc	actggagatg	ataaatgcaa	tatatttaaa	aacatggaga	2100
ggaatgatta	tcggacactg	cgccaggggg	ttatcgacat	ggtcttagcc	acagaaatga	2160
caaagcactt	tgagcatgtc	aaacaaattg	tcaacagcat	caacaaaccc	ttggcaacac	2220
tagaagaaaa	tggggaaact	gataaaaaac	aggaaatgat	aaacactatg	cttaggactc	2280
cagagaaccg	gaccctaate	aaacgaatgc	tgattaaatg	tgtctgatgt	tccaatccct	2340
gccgaccctt	gcagtactgc	atcgagtggg	ctgcacgcac	ttcggaagaa	tatttttctc	2400
agactgatga	agagaagcag	cagggtctac	ctgtggtgat	gccagtgttt	gacagaaata	2460
cctgcagcat	ccccaaatcc	caaatctctt	tcattgatta	cttcacacac	gacatgtttg	2520

atgcttggga	tgcccttggta	gacctgcctg	atttaaatgca	gcaccttgac	aacaacttta	2580
aatactggaa	aggactggac	gaaatgaagc	tgccgaacct	ccgaccacct	cctgaatagt	2640
gggagacacc	acccagagcc	ctgaagcttt	gttccttcgg	tcattttggaa	ttcctgaggg	2700
cagccagagc	tccttgggtc	tttcagtact	aggcagaaca	gccccgac	tgcatagcct	2760
gtgaaagccc	acggggacat	cagtaacctt	ctgcagccac	catccaatgc	cattactgtc	2820
aagtgagact	tgccactgt	agcctgggcc	tgctgcagga	gctcttcaga	aaggcacatg	2880
aggaccacgg	tttgccctcag	tttctggtaa	aacacaaggt	ctggagtgcc	cctgcaaagg	2940
gtattgatgg	acttccctgcc	agtgcagag	catgtctatt	gcaacaatt	ctctcagtta	3000
cgttcagcac	ttaagaacgg	ctaattggcaa	taggatcttt	agcaactttt	tcacatcata	3060
gaaggtgcaa	tcgctcactt	gggaacacta	ctgagagtga	cttctctttt	aaaattgagt	3120
agcagatgaa	aaattaaaaa	ttgaacttga	ttattaatat	caattaaaaa	gtttttattta	3180
ttttattaaa	agctcaatat	tttctatgaa	ttcaaaaaata	cttcagagcc	aaagccaact	3240
tcaaataccg	tgaccaaatt	tacatgattc	atattcatta	tgcatctact	ggtatacaga	3300
cttattttca	taatgcaaat	taataaaatg	acacttttac	tgcatctatg	aaatatcat	3360
gtatgttaaa	cttttctgat	tgaggctaac	tggaanaagc	tggtgctgta	ttctaagtgc	3420
taagaagggc	tgcttctact	gtatagaacc	cagggctctg	aaacagctct	agccgcctaa	3480
tgcacttcac	aggtaactcc	ccaaggtaaa	actagactct	cttgttggtt	cgcaaagaaa	3540
agttaggact	taacactttt	ttctaaaatt	ttataattca	atttccaaaa	gtctactcta	3600
ttttatactg	tttctacaaa	atattcctta	taaaaaacaa	gaacaaaaat	tgaatatatta	3660
atgaattgac	atttttataac	caacctgttt	ttatctacgg	tggaatctt	tgatgccaga	3720
aatttataaa	gaggttctgt	atcttcacac	cttgaataag	cataatacca	taaaaaatga	3780
cacttgacat	gtcaatgtat	ttgtcaattc	attttaaact	cgtatttggt	gtttttttcc	3840
cagataaaaa	tgaaattaaa	ccatttcttt	ttaagaaatc	atgtttt		3887

<210> 119

<211> 1678

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 350895.1

<400> 119

tcggttgctg	tcggcgcgcg	gcggcccggg	cggggggaagc	tgggcggtg	aggcgccccg	60
ctcttctct	ctgccccggg	cccgcgaggg	cacgcgtcgc	cgacagagag	atgatgcagg	120
acgtgtccag	ctcgccagtc	tcgcccggcg	acgacagcct	gagcaacagc	gaggaagagc	180
cagaccggca	gcagccggcg	agcgcggaagc	gcggggcacg	caagcgcgcg	agcagcaggc	240
gcagcgcggg	cgggcgcgcg	gggcccggcg	gagccgcggg	tggggcccgc	ggaggcgggc	300
acgagccggg	cagcccggcc	caggggaagc	gcggcaagaa	gtctgcgggc	tgtggcgggc	360
gcggcgcgcg	ggggcgggcg	ggcgcgggcg	gcggcgggcag	cagcagcggc	ggcgggagtc	420
cgagctctta	cgaggagctg	cagacgcagc	gggtcatggc	caacgtgcgg	gagcgccagc	480
gcacccagtc	gctgaacgag	gcgttcgcgg	cgctgcggaa	gatcatcccc	acgctgccct	540
cggacaagct	gagcaagatt	cagacctca	agctggcggc	caggtacatc	gacttccctc	600
accaggtcct	ccagagcgac	gagctggact	ccaagatggc	aagctgcagc	tatgtggctc	660
acgagcggt	cagctacgcc	ttctcggtct	ggaggatgga	gggggcctgg	tccatgtccg	720
cgccccacta	gcaggcgagg	ccccccaccc	cctcagcagg	gccggagacc	tagatgtcat	780
tggttccaga	gaaggagaaa	atggacagtc	tagagactct	ggagctggat	aactaaaaat	840
aaaaatatat	gccaagatt	ttcttggaaa	ttagaagagc	aaaatccaaa	ttcaaagaaa	900
cagggcggtg	ggcgcaactt	taaaagagaa	agcgagacag	gcccgtggac	agtgattccc	960
agacgggcag	cggcaccatc	ctcacacctc	tgcatctctg	tagaagtctg	aacagttgtt	1020
tgtgtttttt	tttttttttt	tttttgacga	agaatgtttt	tatttttatt	tttttcatgc	1080
atgcattctc	aagaggtcgt	gccaatcagc	cactgaaagg	aaaggcatca	ctatggactt	1140
tctctatttt	aaaatggtaa	caatcagagg	aactataaga	acacctttag	aaataaaaaa	1200
actgggatca	aactggcctg	caaaaccata	gtcagttaat	tctttttttc	atccttccctc	1260
tgaggggaaa	aacaaaaaaa	aacttaaaat	acaaaaaaca	acattctatt	tattttattga	1320
ggaccatgg	taaaatgcaa	atagatccgg	tgctctaaatg	cattcatatt	tttatgatgg	1380
ttttgtaaa	atctttgtat	atttttctgc	ataaaaaata	tataaaaaat	ttagagaacc	1440
ttagagtttg	gtctatatatt	ttaaaactaa	aaattaagtt	ggtggtaaat	acctgcttgt	1500
ttaattctag	aggcaccag	gagggagggg	gcactaatat	aaacaaagca	atgaaaaact	1560
caataaagc	agctactgac	aggcacaagc	atgttatatt	aaaagacagc	ttttattatta	1620
ttccagtttg	gtattttagag	ggcttagttg	catctcttca	tctcttactc	tctcctgc	1678

<210> 120

<211> 5673

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 434265.5

<400> 120

```

gcggaacctga gccccgcgccc tgggatgcgcg ggggatgcgcg tcccccgccc ctgcggctgc 60
tccgggctgg gcgcggggcg atggacctga gcatgaagaa gttcgccgtg cgcaggttct 120
tctctgtgta cctgcgcagg aagtcgcgct ccaagagctc cagcctgagc cggctcgagg 180
aagaagggtgt cgtgaaggag atagacatca gccatcatgt gaaggagggc tttgagaagg 240
cagatccctc ccagtttgag ctgctgaagg ttttaggaca aggatccat ggaagggtgt 300
tcctggtgag gaagggtgaag gggtcgcagc ctgggcagct ctacgccatg aaggtcctta 360
agaaagccac ctaaaagt tgggaccgag tgagatcgaa gatggagaga gacatcttgg 420
cagaagtga ccccttctgc agtataatgc cttcagacg gaaggaaagc 480
tctacctgat cctggacttc ctgcggggag gggacctctt caccggctc tccaaagg 540
tcatgttcac ggaggaggat gtcaagttct acctggctga gctggccttg gcttttagacc 600
atctccacag cctggggatc atctacagag atctgaagcc tgagaacatc ctcctggatg 660
aagaggggca cattaagatc acagatttcg gcctgagtaa ggaggccatt gaccacgaca 720
agagagcgta ctccttctgc gggacgatcg agtataatgc gccgagggtg gtgaaccggc 780
gaggacacac gcagagtgc gactggtggt ccttcggcgt gctcatgttt gagatgctca 840
cggggtccct gccgttccag gggaaggaca ggaaggagac catggctctc atcctcaaag 900
ccaagtggg gatgcgcgag ttcctcagtg gggaggcaca gagtttgcg gagctctct 960
tcaaagcgta cccctgcaac cggctgggtg ctggcattga cggagtggag gaaattaagc 1020
gccatccctt ctttgtgacc atagactgga acacgctgta ccggaaggag atcaagccac 1080
cgttcaaacc agcagtgggc aggcctgagg acaccttcca ctttgacccc gagttcacag 1140
cgcgagcggc cacagactct cctggcgtcc ccccgagtgc aaacgctcat cacctgttta 1200
gaggattcag ctttgtggcc tcaagcctga tccaggagcc ctacagcaa gatctgcaca 1260
aagtcaccgt tcaccaatc atcggggtg tgcacgggaa taacatccac ttcaccgatg 1320
gctacgagat caaggaggac atcggggtg gctcctactc agtgtgcaag cgatgtgtgc 1380
ataaagccac ggacaccgag tatgccgtga agatcattga taagagcaag agagaccct 1440
cggaagagat tgagatcctc ctgcggtagc gccagcacc gaacatcatc accctcaagg 1500
atgtctatga tgatggcaag tttgtgtacc tgcaatgga gctgatgcg ggtggggagc 1560
tcctggaccg catcctccgg cagagatact tctcggagcg cgaagccagt gracctcctg 1620
gcaccatcac caagaccatg gactacctcc attcccagg ggttgtcat cgagacctga 1680
agccgagtaa catcctgtac agggatgagt cggggagccc agaatccatc cgagtctgcg 1740
acttcggctt tgccaagcag ctgcgcgcgg ggaacgggct gctcatgaca cctgtaca 1800
cggccaattt cgtggccccc gaggtcctga agcgtcaagg ctatgatgcg gcgtgtgaca 1860
tctggagttt ggggatcctg ttgtacacca tgctggcagg atttaccct tttgcaaag 1920
ggccagacga taccctgag gagattctgg cgcggatcgg cagtgggaag tatgccctt 1980
ctgggggaaa ctgggactcg atatctgacg cagctaaaga cgtcgtgtcc aagatgtcc 2040
acgtggaccc tcactagcgc ctgacggcga tgcaagtgc caaacacccg tgggtggtca 2100
acagagagta cctgtcccca aaccagctca gccagacgga cgtgcacctg gtgaaggcg 2160
cgatggccgc cacctacttt gctctaaaca gaacacctca ggccccgcg ctggagccc 2220
tgctgtcatc caacctggct cagcgcagag gcatgaagag actcacgtcc acgcggtgt 2280
agcgggtggg accctggccc cagcgtcccc tccagcatc ctctgggct cacagacc 2340
ggcctcggag cccgtctggc acccagagtg accacaagtc cagcagggag gcgcgccc 2400
ccctcgcgt gtccgtgttt tctttttcag ccccgagag ggtcctgacc tgggggctt 2460
tccaagctc actgcgccag cctcccgcgc cgtctcttt tctcccaagc aaaaccaat 2520
gcgcccttc acctcgcgt cccgtgcgag gcgggggct tctttcagag ccccgggct 2580
ctctcatata tggcttctgt ttctgcccag agatctgttt tccaattatg aagcggctc 2640
gtttggtcag actcccgaca ccaagctccc aggtaccggg tgggaaagtg gcagtgcgag 2700
ggcgacgcca ttggtggtt cagggcccca gagggctggg gtgacctggc atcccgggg 2760
tccccacggg ctggatgacg ggtttggcac tgtggcgtcc aggaggagat gcctggtct 2820
gccccaaata atccaaagag ccgtttcctc ctgcacctc agtttttgc tgaggtgct 2880
ggtagcccat ctttctctct gtcccagatt caaatgagga gtaagagccc agacgagag 2940
aaggcaggct ggatctttgc cttgagagct ccgtgtcacc aggatggaag ggggtgcct 3000
tcggaggagc ctgtgtccac ctccagctc ggctttccc gggggggcca agcgactgg 3060
ggctgcgcgt tgtcccagc tcccgtgggc cacacagcta tctggaggct ttgcaggag 3120
tcgtgggttc tcgcacctg tcagccctgt tctggcttcc tgtgtgctca cctaaagct 3180
tggttttgct gtgttcaact cgatttttct ggtctgtgga gaaactgtga attggagaaa 3240
tggagctctg tggttcccca cccaaacctt ctcagtcag ctggaggctg gaggggagaca 3300
caggccccac ccagcagact gaggggcaga ggcacagggt ggagggcagc ggagatcac 3360
gtgacacgga cgcagtcact ttgtagatgc tgtggctttg tgttgcgtt tgtgtctct 3420
ttgcacagat ctgttttttc acactgatcc gtattccct gggtgtgcac acagggcg 3480
tgtggggcat ttaggccatg ctgtgtctta cttcattgag taaaatcgag tgagaggtt 3540
cgggcagcag gatcgacgcc cagtccagcc ggcagaggga acacacgggt ccttcattgt 3600
cctgtaaggg tgtgaagat gctccctggc gggcccaag cagactagat gggaggagc 3660
gccgctcagc cctcacctg gcatcactga agagcggcgc ctctgcagca agcagggct 3720

```

caggaggtgc	cggctggcca	cagccaggtt	ttccctaaga	agatgttatt	ttgttgggtt	3780
ttgttcccc	tccatctcga	ttctcgtacc	caactaaaaa	aaaaaaaata	aagaaaaaat	3840
gtgtcgcgtt	ctgaaaaata	actccttagc	ttggctctgat	tgttttcaga	ccttaaaaaa	3900
taaaacttgtt	tcacaagctt	taatccatgt	ggattttttt	ttcttagaga	accacaaaac	3960
ataaaaggag	caagtcggac	tgaatacctg	tttccatagt	gcccacaggg	tattcctcac	4020
attttctcca	tagaagatgc	tttttcccaa	ggctagaacg	acttccacca	tgatgaattt	4080
gctttttagg	tcttaattat	ttcacttctt	tttagaaact	taggaagaag	tggataatcc	4140
tgaggtcaca	caatctgtcc	tcccagaaat	gaacaaaagt	catcaccttt	tctgcttget	4200
acacaggcaa	cgattccccc	atcagctgcc	cgaccctttt	ggcctggctt	ggtgtgcagg	4260
cctgtctgtt	tgtttaaagt	cagtgggttc	tggtgcaggg	agtgagaagt	gggggaagtg	4320
aaagggaaag	catccgtgag	aaagcggcca	cggttttccc	tccttgtgtg	cccatggggc	4380
accagctcat	ggtctttttc	agtcatccca	gtttgtacag	acttagcttc	tgaactctaa	4440
gaatgccaaa	gggaccgacg	agactcccca	tcacagcgag	ctctgtcctt	acatgtattt	4500
gatgtgcac	agcggaggag	aacactggct	tgccctgtct	ccgctgagtg	tctgtgaaat	4560
acctctactt	tccctcccat	atccagaaca	aaatgatact	tgacatcctt	ccacaaaagt	4620
cagcctaaag	aagtatatgt	atcatatgtt	aaactaagct	ttcaaaaacc	ttagtgaaat	4680
agcaagtgc	tgctttcaag	cagcagtcga	catgtaaagt	aaggtgttct	tagaattcgc	4740
atthtgcag	ctcagcgac	ctccacaacg	aatgaaatgc	tccgtatgat	ttgcacaaat	4800
gacatagacc	tccccaaaag	ttaactggct	ctccttcttc	acacagttca	tcataaccca	4860
acccccacc	cccggtcat	gaaaatcaca	gaacttataa	acacattgaa	ccctagatct	4920
caggcttctc	gacctaccgc	cagtggcccc	ttgctggcca	ccctataggg	tcctccttcc	4980
ctggcagccc	cccatgtggg	agaaatacct	gattctccca	atctgcagtg	ggagagcttt	5040
gctgaattcc	atcccaaagt	caaacatggg	caagaggtga	ggatttcact	tttaccctca	5100
agtcagattt	gtctgtgatt	ttaaactaac	tgtgtatgta	ttgatgtttg	gaagattgtt	5160
tgaattttta	agtataata	gtacttaagt	ttatccagta	ttgttcatta	aatgggtgta	5220
tcctaaagct	gcacttggga	tttttaccta	acgctttact	gattctctca	agcacaatgg	5280
aaagtgtgat	ttgcactccg	ttcatttctg	acacgttttg	ctgcctccta	ccttttctaag	5340
cgatcatcaa	attcgagaat	ggagaaggac	gctgccggtc	cctgagcggg	gtggagaggg	5400
cggaaaggtg	actccagcgc	agcttgaggg	gctgaggacg	gaggctgcag	catctgtgtc	5460
gttctactga	gcacgctctt	ctgcctcgct	cctgactcag	cactttgttc	actggctcag	5520
cagttatgta	tacacatcat	ttttatgttc	ctgctttgtg	attcatgttt	gagatgggtg	5580
gccactgtac	agatatattt	tacgcttttc	agactttctg	aatagatttt	tttgaataaa	5640
catggtttta	tgaagtgtaa	tctttttcta	gcc			5673

<210> 121

<211> 8044

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 427813.14

<400> 121

cggctcgagc	cggctgtgct	gcacaggggg	aggagagggg	accccaggcg	cgagcgggaa	60
gaggggacct	gcagccacaa	cttctctggt	cctctgcac	ccttctgtcc	ctccaccctg	120
ccccctcccc	accctctggc	ccccaccttc	ttggaggcga	caacccccgg	gaggcattag	180
aagggatttt	tcccgaggt	tgcgagggga	agcaaaactt	gtggcaactt	gcctcccgtg	240
gcgggcgtct	ctccccacc	gtctcaacat	gcttaggggt	ccggggcccg	ggctgtctgt	300
gctggccgtc	ctgtgcctgg	ggacagcggg	gcctccacg	ggagcctcga	agagcaagag	360
gcaggctcag	caaatggttc	agccccagtc	cccggtggct	gtcagtcaaa	gcaagcccg	420
ttgttatgac	aatggaaaac	actatcagat	aaatcaacag	tgggagcgga	cctacctagg	480
caatgcgttg	gtttgtactt	gttatggagg	aagccgaggt	tttaactgcg	agagtaaac	540
tgaagctgaa	gagacttgct	ttgacaagta	cactgggaac	acttaccgag	tgggtgacac	600
ttatgagcgt	cctaaagact	ccatgatctg	ggactgtacc	tgcattgggg	ctgggcgagg	660
gagaataagc	tgtaccatcg	caaaccgctg	ccatgaagg	ggtcagtcct	acaagattgg	720
tgacacctgg	aggagaccac	atgagactgg	tgggttacatg	ttagagtgtg	tgtgtcttgg	780
taatggaaaa	ggagaatgga	cctgcaagcc	catagctgag	aagtgttttg	atcatgtctc	840
tgggacttcc	tatgtggctg	gagaaacgtg	ggagaagccc	taccaaggct	ggatgatggg	900
agattgtact	tgccctgggag	aaggcagcgg	acgcatcact	tgcacttcta	gaaatagatg	960
caacgatcag	gacacaagg	catcctatag	aattggagac	acctggagca	agaaggataa	1020
tcgaggaaac	ctgctccagt	gcactctgcac	aggcaacggc	cgaggagagt	ggaagtgtga	1080
gaggcacacc	tctgtgcaga	ccacatcgag	cggatctggc	cccttcaccg	atgttcctgc	1140
agctgtttac	caaccgcagc	ctcaccacca	gcctcctccc	tatggccact	gtgtcacaga	1200
cagtggtgtg	gtctactctg	tggggatgca	tgggctgaag	acacaaggaa	ataagcaaat	1260
gctttgcacg	tgccctgggca	acggagtcag	ctgccaaag	acagctgtaa	cccagactta	1320
cgggtggcaac	tcaaatggag	agccatgtgt	cttaccattc	acctacaatg	gcaggacgtt	1380

ctactcctgc	accacagaag	ggcgacagga	cggacatctt	tgggtgcagca	caacttcgaa	1440
ttatgagcag	gaccagaaat	actctttctg	cacagaccac	actgttttgg	ttcagactcg	1500
aggaggaaat	tccaatggtg	cettgtgcca	cttccccctc	ctatacaaca	accacaatta	1560
cactgattgc	acttctgagg	gcagaagaga	caacatgaag	tgggtgtggga	ccacacagaa	1620
ctatgatgcc	gaccagaagt	ttgggttctg	ccccatggct	gcccacgagg	aaatctgcac	1680
aaccaatgaa	ggggtcatgt	accgcattgg	agatcagtgg	gataagcagc	atgacatggg	1740
tcacatgatg	aggtgcacgt	gtgttgggaa	tgggtcgtgg	gaatggacat	gcattgccta	1800
ctcgcagctt	cgagatcagt	gcattgttga	tgacatcact	tacaatgtga	acgacacatt	1860
ccacaagcgt	catgaagagg	ggcacatgct	gaactgtaca	tgcttcggtc	agggtcgggg	1920
cagggtggaag	tgtgatcccc	tcgaccaatg	ccaggattca	gagactggga	cgttttatca	1980
aattggagat	tcattgggaga	agtatgtgca	tgggtgtcaga	taccagtgtc	actgtctatg	2040
ccgtggcatt	ggggagtggc	attgccaacc	tttacagacc	tatccaagct	caagtgggcc	2100
tgtcgaagta	tttatctcga	agactccgag	tcaggccaac	tcccaccca	tcagtgga	2160
tgaccacag	ccatctcaca	ttttccaagta	cattctcagg	tggagacct	aaaattctgt	2220
aggccgttgg	aaggaagcta	ccataccagg	ccacttaaac	tcctacacca	tcaaaggcct	2280
gaagcctggt	gtggtatacg	agggccagct	catcagcatc	cagcagtacg	gccaccaaga	2340
agtgaçctgc	tttgacttca	ccaccaccag	caccagcaca	cctgtgacca	gcaacaccgt	2400
gcagaggagc	acgactccct	tttctcctct	tgttgccact	tctgaatctg	tgaccgaaat	2460
cacagccagt	agctttgtgg	tctcctgggt	ctcagcttcc	gacaccgtgt	cgggatcccg	2520
ggtggaatat	gagctgagt	aggagggaga	tgagccacag	tacctggatc	ttccaagcac	2580
agccacttct	gtgaacatcc	ctgacctgct	tcttgccga	aaatacattg	taaatgtcta	2640
tcagatatct	gaggatggg	agcagagttt	gatcctgtct	acttcacaaa	caacagcgcc	2700
tgatgcccc	cctgaccgga	ctgtggacca	agttgatgac	acctcaattg	ttgttcgctg	2760
gagcagaccc	caggctccca	tcacagggta	cagaatagtc	tattcgccat	cagtagaagg	2820
tagcagcaca	gaactcaacc	ttcctgaaac	tgcaaaactc	gtcacccctc	gtgacttgca	2880
acctggtgtt	cagtataaca	tcactatcta	tgtgttgga	gaaaatcaag	aaagtacacc	2940
tgttctcatt	caacaagaaa	ccactggcac	ccacgctca	gatacagtgc	cctctcccag	3000
ggacctgcag	tttgtggaag	tgacagacgt	gaaggtcacc	atcatgtgga	caccgcctga	3060
gagtgcagt	accggctacc	gtgtggatgt	gatccccgtc	aacctgcctg	gcgagcacgg	3120
gcagaggctg	cccactagca	ggaacacctt	tgacagaagt	accgggctgt	cccctggggg	3180
cacctattac	ttcaaatgtc	ttgcagttag	ccatgggagg	gagagcaagc	ctctgactgc	3240
tcaacagaca	accaaactgg	atgctccac	taacctccag	tttgtcaatg	aaactgattc	3300
tactgtcctg	gtgagatgga	ctccacctcg	ggcccagata	acaggatacc	gactgaccgt	3360
gggecttacc	cgaagaggcc	agcccaggca	gtacaatgtg	ggtccctctg	tctccaagta	3420
ccccctgagg	aactctgcag	ctgcatctga	gtacaccgta	tcctctgtgg	ccataaaggg	3480
caaccaagag	agccccaaag	ccactggagt	ctttaccaca	ctgcagcctg	ggagctctat	3540
tcacacctac	aacaccgagg	tgactgagac	caccattgtg	atcacatgga	cgcctgtctc	3600
aagaattggt	tttaagctgg	gtgtacgacc	aagccaggga	ggagaggcac	cacgagaagt	3660
gacttcagac	tcagaaagca	tcgtttgtgc	cggcttgact	ccaggagttag	aatacgtcta	3720
caccatccaa	gtcctgagag	atggacagga	aagagatgcg	ccaattgtaa	acaaagtggg	3780
gacaccattg	tctccaccaa	caaacttgca	tctggaggca	aacctgaca	ctggagtgtc	3840
cacagtctcc	tgggagagga	gcaccacccc	agacattact	ggttatagaa	ttaccacaac	3900
ccctacaaac	ggccagcagg	gaaattcttt	ggaagaagt	gtccatgctg	atcagagctc	3960
ctgcactttt	gataacctga	gtcccggcct	ggagtacaat	gtcagtgttt	acactgtcaa	4020
ggatgacaag	gaaagtgtcc	ctatctctga	taccatcatc	ccagctgttc	ctcctcccac	4080
tgacctgcga	ttcaccaaca	ttggtccaga	caccatgcgt	gtcacctggg	ctccaccccc	4140
atccattgat	ttaaccaact	tcttggtgcg	ttactcacct	gtgaaaaatg	aggaagatgt	4200
tgacagattg	tcaatttctc	cttcagacaa	tgacagtgtc	ttaacaaatc	tcttgcttgg	4260
tacagaatat	gtagttagtg	tctccagtgt	ctacgaacaa	catgagagca	cacctcttag	4320
aggaagacag	aaaacaggtc	ttgattcccc	aactggcatt	gacttttctg	atattactgc	4380
caactctttt	actgtgcact	ggattgtctc	tcgagccacc	atcactgggt	acaggatccg	4440
ccatcatccc	gagcaactca	gtgggagacc	tcgagaagat	cgggtgcccc	actctcgga	4500
ttccatcacc	ctcaccaacc	tcactccagg	cacagagtat	gtggtcagca	tcgttgcctc	4560
taatggcaga	gaggaaagtc	ccttattgat	tggccaacaa	tcaacagttt	ctgatgttcc	4620
gagggacctg	gaagtgtgtg	ctgcgacccc	caccagccta	ctgatcagct	gggatgtctc	4680
tgctgtcaca	gtgagatatt	acaggatcac	ttacggagaa	acaggaggaa	atagccctgt	4740
ccaggagttc	actgtgcctg	ggagcaagtc	tacagctacc	atcagcggcc	ttaaacctgg	4800
agttgattat	accatcactg	tgtatgctgt	cactggccgt	ggagacagcc	ccgcaagcag	4860
caagccaatt	tccattaatt	accgaacaga	aattgacaaa	ccatcccaga	tgcaagtgc	4920
ctgatgttcg	gacaacagca	ttagtgtcaa	gtggctgcct	tcaagtcccc	ctgttactgg	4980
ttacagagta	gaccacactc	ccaaaaatgg	accaggacca	acaaaaacta	aaactgcagg	5040
tccagatcaa	acagaaatga	ctattgaagg	cttgacagcc	acagtggagt	atgtggttag	5100
tgtctatgct	cagaatccaa	gaggagagag	tcagcctctg	gttcagactg	cagtaaccaa	5160
cattgatcgc	cctaaaggac	tggcattcac	tgtatgtggat	gtcgattcca	tcaaaattgc	5220
ttgggaaagc	ccacaggggc	aagtttccag	tgacaggggt	acctactcga	gccctgagga	5280
tggaaatccat	gagctattcc	ctgcacctga	tgggtgaagaa	gacactgcag	agctgcaagg	5340
cctcagaccg	ggttctgagt	acacagtcag	tgtggttgcc	ttgcacgatg	atatggagag	5400

```

ccagccctg attggaaccc agtccacagc tattcctgca ccaactgacc tgaagttcac 5460
tcaggtcaca cccacaagcc tgagcgccca gtggacacca cccaatgttc agctcactgg 5520
atatcgagtg cgggtgaccc ccaaggagaa gaccggacca atgaaagaaa tcaaccttgc 5580
tcctgacagc tcatccgtgg ttgtatcagg acttatgggtg gccaccaa atgaagtgg 5640
tgtctatgct cttaaggaca ctttgacaag cagaccagct caggggtgttg tcaccactct 5700
ggagaatgtc agcccaccaa gaagggctcg tgtgacagat gctactgaga ccaccatcac 5760
cattagctgg agaaccaaga ctgagacgat cactggcttc caagttgatg ccgttccagc 5820
caatggccag actccaatcc agagaacccat caagccagat gtcagaagct acaccatcac 5880
aggcttaca ccaggcactg actacaagat ctacctgtac acottgaatg acaatgctcg 5940
gagctccctc gtggtcatcg acgcctccac tgccattgat gcaccatcca acctgcgttt 6000
cctggccacc acacccaatt ccttgctggt atcatggcag ccgccacgtg ccaggattac 6060
cggctacatc atcaagtatg agaagcctgg gtctcctccc agagaagtgg tccctcggcc 6120
ccgctctggt gtcacgaggg ctactattac tgacctgga cggggaaccg aatatacaat 6180
ttatgtcatt gccctgaaga ataatcagaa gagcgagccc ctgattggaa ggaaaaagac 6240
agacgagctt cccaactgg taaccttcc acaccccaat cttcatggac cagagatctt 6300
ggatgttctc tccacagttc aaaagacccc tttcgtcacc caccctgggt atgacactgg 6360
aaatgggtatt cagcttcttg gcacttctgg tcagcaaccc agtgttgggc aacaaatgat 6420
ctttgaggaa catggtttta ggcggaccac acggccacc cccataaggca 6480
taggccaaga ccataccgc cgaatgtagg acaagaagct ctctctcaga caaccatctc 6540
atgggccccca ttccaggaca cttctgagta catcatttca tgtcatcctg ttggcactga 6600
tgaagaaccc ttacagttca ggggttcttg aacttctacc agtgccactc tgacaggcct 6660
caccagaggt gccacctaca acatcatagt ggaggcactg aaagaccagc agaggcataa 6720
ggttcgggaa gaggtttgta ccgtgggcaa ctctgtcaac gaaggcttga accaacctac 6780
ggatgactcg tgctttgacc cctacacagt ttcccattat gccgttggag atgagtggga 6840
acgaatgtct gaatcaggct ttaaactggt gtgccagtgc ttaggctttg gaagtgtca 6900
tttcagatgt gattcatcta gatggtgcca tgacaatggt gtgaactaca agattggaga 6960
gaagtgggac cgtcaggag aaaatggcca gatgatgagc tgacatgtc ttgggaacgg 7020
aaaaggagaa ttcaagtgtg accctcatga ggcaacgtgt tacgatgatg ggaagacata 7080
ccacgtagga gaacagtggc agaaggaata tctcggtgcc atttgctcct gcacatgctt 7140
tggaggccag cggggctggc gctgtgacaa ctgcccaga cctgggggtg aaccagtc 7200
cgaaggcact actggccagt cctacaacca gtattctcag agataccatc agagaacaaa 7260
cactaatgtt aattgcccaa ttgagtgtt catgccttta gatgtacagg ctgacagaga 7320
agattcccgga gagtaaatca totttccaat ccagaggaac aagcatgtct ctctgccaa 7380
atccatctaa actggagtga tgtagcaga ccagcttag agttcttctt tctttcttaa 7440
gccctttgct ctggaggaag ttctccagct tcagctcaac tcacagcttc tccaagcatc 7500
accctgggag tttcctgagg gttttctcat aaatgagggc tgacatttgc ctgttctgct 7560
tcgaagtatt caataccgct cagtattttta aatgaagtga ttctaagatt tggtttggga 7620
tcaataggaa agcatatgca gccaaccaag atgcaaatgt tttgaaatga tatgaccaaa 7680
attttaagta ggaagtcac ocaaacactt ctgctttcac ttaagtgtct ggccgcgaat 7740
actgtaggaa caagcatgat cttgttactg tgatatttta aataccaca gtactcactt 7800
tttccaaatg atcctagtaa ttgcctagaa atatctttct cttacctgtt atttatcaat 7860
ttttccagat atttttatac ggaaaaaatt gtattgaaaa cacttagtat gcagttgata 7920
agaggaaatt ggtataatta tgggtgggtga ttatttttta tactgtatgt gccaaagctt 7980
tactactgtg gaaagacaac tgttttaata aaagatttac attccacaaa aaaaaaaaaa 8040
aggg 8044

```

<210> 122
 <211> 5286
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 014704.3

<220>
 <221> unsure
 <222> 4789-4822
 <223> a, t, c, g, or other

```

<400> 122
taagcttgcg ccgaccaatt tttttttttt tttttttttt ttttttttgt ctgggcttcc 60
gaatatgttt tatgacggtt gatttttacac caggaggttt gtctccgagg aagaccaggg 120
gaactggata tctagcgaga acttccctccg gattccccgg cgctcgggga aaatgggagc 180
tgctgcaaag ttggcgtttg ccgtctttct tatctcctgt tcttcaggtg ctatacttgg 240
tagatcagaa atcaggagt gtcttttctt taatgctaata tgggaaaaag acagaaccaa 300
tcaaaactggt gttgaaccgt gttatggtga caaagataaa cggcggcatt gttttgccta 360

```

```

cctggaagaa tatttctggt tccattgaaa tagtgaaaca aggttggtgg ctggatgata 420
tcaactgcta tgacaggact gatttgtgtag aaaaaaaga cagccctgaa gtatatTTTT 480
gttgctgtga gggcaatatg tgtaatgaaa agttttctta ttttccggag atggaagtca 540
cacagcccac ttcaaatcca gttacaccta agccacccta ttacaacatc ctgctctatt 600
ccttggtgcc acttatgtta attgcgggga ttgtcatttg tgcatTTTgg gtgtacaggc 660
atcacaaagt ggcctaccct cctgtacttg ttccaactca agaccagga ccacccccac 720
cttctccatt actaggTTTg aaaccactgc agttattaga agtgaaagca agggggaagat 780
ttggttgtgt ctggaaagcc cagttgctta acgaatatgt ggctgtcaaa atatttccaa 840
tacaggacaa acagtcattg caaaatgaat acgaagtcta cagtttgcct ggaatgaagc 900
atgagaacat attacagttc attggtgcag aaaaacgagg caccagtgtt gatgtggatc 960
tttggtctgat cacagcattt catgaaaagg gtccactatc agactttctt aaggctaattg 1020
tggtctcttg gaatgaactg tgtcatattg cagaaaccat ggctagagga ttggcatatt 1080
tacatgagga tatacctggc ctaaaagatg gccacaaacc tgccatatct cacagggaca 1140
tcaaaagtaa aaatgtgtgc ttgaaaaaca acctgacagc ttgcatTgct gactttgggt 1200
tgcccttaaa atttgaggct ggcaagtctg caggcgatac ccatggacag gttggtaccc 1260
ggaggtacat ggctccagag gtattagagg gtgctataaa cttccaaagg gatgcatTTT 1320
tgaggtatga tatgtatgcc atgggattag tccattggga actggcttct cgtgtactg 1380
ctgcagatgg acctgtagat gaatacatgt gcattttga ggaggaaatt ggccagcatc 1440
catctcttga agacatgcag gaagttgttg tgcataaaaa aaagaggcct gttttaagag 1500
attattggca gaaacatgct ggaatggcaa tgctctgtga aaccattgaa gaatgttggg 1560
atcacgacgc agaagccagg ttatcagctg gatgtgtagg tgaagaat acccagatgc 1620
agagactaac aaatattatt accacagagg acattgtaac agtggtcaca atggtgacac 1680
atgttgactt tcttcccaa gaatctagtc tatgatgggt gcgccatctg tgcacactaa 1740
gaaatgggac tctgaactgg agctgctaag ctaaagaaac tgcttacagt ttattttctg 1800
gttaaatga gtaggatgtc tcttggaat gttaagaaag aagaccctt gttgaaaaa 1860
gttgctctag gagacttaac gcattgcccga cagcacagat gtgaaggaca tgagactaag 1920
agaaaccttg caaactctat aaagaaactt ttgaaaaagt gtacatgaag aatgtagccc 1980
tctccaaatc aaggatcttt tggacctggc taatggagtg tttgaaaact gacatcagat 2040
tcttaatatg ctgtcagaag acactaattc cttaaataaa ctactgctat tttttttaa 2100
tcaaaaactt ttactttcag atttttaaaa gggtaacttg tttttattgc atttgcTgt 2160
gtttctataa atgactattg taatgccaat atgacacagc ttgtgaatgt ttagtTgtct 2220
gctgttctgt gtacataaag tcatcaaagt ggggtacagt aaagaggctt ccaagcatta 2280
ctttaacctc cctcaacaag gtataacctc gttccacggt tgctaaatta taaaattgaa 2340
aacactaaca aaatttgaat aataaatcga tccatgtttt gtaacaaatt cactgtgtta 2400
tttaaggaaa aaaaggtaag ctatgcttag tgccaacaat aagtggccat tctgtaaagca 2460
gtgttttagc atttcttTgt ctggcttTga atgtagggaa aaaaagtgtt gttttttgaa 2520
aagatgggtg catttcccc atcttccccat gtttttaaagc cccatcttat atccagtTcc 2580
caaaatttgc atacttacct aagtatTTTT aaagtTgtg ttttaggtgtg ctgtgtttgg ggaatatttg 2640
aaaatttaaa gcatgattta aaatttttta aagtTgagctg tgacactgga aagctcttca 2700
ttttatcttt taaaatagag ttttttctat ttatatatgt aaaattgtag tgtatttctt 2760
ttcaccaaac agtgtgtggg acattcttta tcaactgttt aggatcacct caggaaTgt 2820
cgttaccacg aattccccac tgtctgctat gagacttTga actttatcac tatacttctg 2880
cttggtgcca cttgtcaga gtaatatTtg atgtctTga tatgtaaaga attatcctag 2940
gataaagata ttaaaactta agcagatttc agatgttact gctttaaaac aaatcaggga 3000
taacaaatta aacgtataac ttaaaatatg caatgacatt tagaggtaac caatgttgat 3060
ataggtagca tagcctagcc tcttccccaa aattgtcttt acaactaaca ctgatactaa 3120
ttaggatag ttcatgcctt atccttTgta agaaaatgga attgatggta ggcaggTgt 3180
aaagtgcctt tcaaaacaat attacgttag aatacaattg gattcttctt caaatttata 3240
caggccaaa agtaaaacat taattttctg aatttccaga ttaccaatca attaatcaac 3300
aaatagccag tattatgtg tgtattttctg tcaaggTcatt ttaaaatcca tgttaatttt 3360
ataaaagaat tttttacatg tcaactgtcag gagctcactg tgaatgtgtt gtcttcaaat 3420
ggttatttaa ccacacagta cactacattt tacatatatg tacgtaactc ctgggaatag 3480
taaattaatt atgttatTTa taacaatac ataggtcaac agactTTaag cagggaggaa 3540
aagaagagta atagcgtctg tgtgctgcag accattcaga actgtcaagt gtgtcccat 3600
ggtctcatc attgtattcc tagcaattcc cttttcaatg ttgagTtoac ctctttattt 3660
cacaaagtac ttggtctctc aatttctTga cttccattta aaaactaatc 3720
aagaagggaa aatattgaga atgtgcatac aagaaaaatca ttaatttctt gaagatgaat 3780
ttctacctgt tgtgaacatt taactttctt tttaaaagtt aaacaaaaat aaacaaggga 3840
tattatgatg aatgtttTgc ttatgtTgag actagagata aaatttttaa acccagtTat 3900
tcacaatata aaatgttttc aagttagaaa attttttttag aaatcctggg tattgtattt 3960
aaacttagct aaacattTt tctttttgag aactattatt aatagaaaaa 4020
ctttttataa gcagtaaaat aagaatgttc cagtTactac ctgtccttat acctagtctt 4080
gttaaaactt tcttttgca ggtattttagt gtttggttta cagtcagtgc agagtgggca 4140
agttaacaga aagtttgagc tagagatact ggaaaaaaa aagatcaaag aatgagaaaa 4200
atggtagctc attttggggt aaactgagac ccccaataa actcttctct catgtgtatg 4260
gtgctctcca tgactgtct tgtattttgc cttcttgata ccatcagaa ctgctgctgc 4320
tctaacttat actctttacc ttgcccagat ctccgcgtaa ggaatgcttt atgatcaact 4380

```

tgccatagga	ctgatggatt	aaccagtgtt	cggttttatt	tgaagtctat	gccctgcaca	4440
gctcttgtat	gtatttttaga	tgctagaagt	tttttttagca	tgatgatgtgt	gattcttgtt	4500
tgaattcttag	gtaccttgtg	aattccagaa	aaagagactg	tgcttcacga	ttgttagtcc	4560
catgaacttg	cactatctat	ctttcatggt	gatgttttga	aaatacaatc	aggaaaaaac	4620
ccaacacctt	tggaaatttaa	aatagaatca	tatcatgaaa	tttaaaaaga	atctcttctg	4680
ttgcatttcc	tcacccttaa	gtaacagcta	catttaagta	aatgcagggt	ggtaggggaa	4740
aaaaaaccat	ggcgagatgg	tggttttagtg	gaataaactg	attactgggn	nnnnnnnnnn	4800
nnnnnnnnnn	nnnnnnnnnn	nnngcttcac	acagatactt	tccagtttct	cttttatact	4860
tttttgaaag	attacttttt	aggaacattt	ggtatgatat	gcataaaaatt	atttatccat	4920
ttatgggcaa	aatgatacaa	gtagcatctt	gattgaacat	catttacctc	agatattcaa	4980
ccagcagtac	gttttttatg	cagtctcaac	ccatatccca	tttgttacct	ctcagaatat	5040
tggttaagcag	ttattttcgc	tttactctgt	atttcttgtg	ttttgggcac	agggtattgt	5100
actactgtca	aactcgtatt	gctatttttt	ctgcaagtat	ttaacagaaa	gcttaaaate	5160
cccataaaac	cccaccttgg	ataagtgatt	gttaaatatt	gtacaaaata	aatgtatgct	5220
atccccattc	catccccaag	ttaataaaaa	aatgaatac	ggtatgattt	gcataatgcag	5280
tttttc						5286

<210> 123

<211> 3704

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 344240.2

<220>

<221> unsure

<222> 3522, 3634-3635, 3699

<223> a, t, c, g, or other

<400> 123

cggtctcgagg	agaagtggat	aaatcagtcg	tgctttcttt	aggacgaaag	aagtatggag	60
cagtgggagc	actttcacaa	tcaacaggag	gacactgata	gctgctccga	atctgtgaaa	120
tttgatgctc	gctcaatgac	agctttgctt	cctccgaatc	ctaaaaacag	cccttccctt	180
caagagaaac	tgaagtcttt	caaagctgca	ctgattgccc	tttacctcct	cgtgttttga	240
gttctcatcc	ctctcattgg	aatagtggca	gctcaactcc	tgaagtggga	aacgaagaat	300
tgctcagtta	gttcaactaa	tgcaaatgat	ataactcaaa	gtctcacggg	aaaaggaaat	360
gacagcgaag	aggaaatgag	atttcaagaa	gtctttatgg	aacacatgag	caacatggag	420
aagagaatcc	agcatatttt	agacatggaa	gccaacctca	tgacacaga	gcattttcaa	480
aatttcagca	tgacaactga	tcaaagattt	aatgacattc	ttctgcagct	aagtaccttg	540
ttttctcag	tccagggaca	tgggaatgca	atagatgaaa	tctccaagtc	cttaataagt	600
ttgaatacca	cattgcttga	tttgagctc	aacatagaaa	atctgaatgg	caaaatccaa	660
gagaatacct	tcaacaaca	agaggaaatc	agtaaatagg	aggagcgtgt	ttacaatgta	720
tcagcagaaa	ttatggctat	gaaagaagaa	caagtgcatt	tggaacagga	aataaaagga	780
gaagtgaag	tactgaataa	catcactaat	gatctcagac	tgaaagattg	ggaacattct	840
cagaccttga	gaaatatcac	tttaattcaa	ggtctctctg	gacccccggg	tgaaaaagga	900
gatcgaggtc	ccactggaga	aagtgggtcca	cgaggatttc	caggtccaat	aggtcctccg	960
ggtcttaag	gtgatcgggg	agcaattggc	tttctcggaa	gtcaggagact	cccaggatat	1020
gccggaaggc	caggaaattc	tggaacaaaa	ggccagaaag	gggaaaaggg	gagtggaaac	1080
acattaactc	catttacgaa	agttcgactg	gtcgggtggga	gcgccctca	cgaggggaga	1140
gtggagatac	tccacagcgg	ccagtggggg	acaatttctg	acgatcgctg	ggaagtgcgc	1200
gttgacagg	tcgtctgtag	gagcttggga	taccaggtg	ttcaagccgt	gcacaaggca	1260
gctcactttg	gacaaggtag	tggtccaata	tggtggaatg	aagtgttttg	ttttgggaga	1320
gaatcatcta	ttgaagaatg	taaaattcgg	caatggggga	caagagcctg	ttcacattct	1380
gaagatgctg	gagtcacttg	cactttataa	tgcatcatat	tttcattcac	aactatgaaa	1440
tcgctgctca	aaaatgattt	tattaccttg	ttcctgtaaa	atccatttaa	tcaatattta	1500
agagattaag	aatattgccc	aaataatatt	ttagattaca	ggattaatat	attgaacacc	1560
ttcatgctta	ctattttatg	tctatattta	aatcatttta	acttctatag	gtttttaaat	1620
ggaattttct	aatataatga	cttatatgct	gaattgaaca	ttttgaagtt	tatagcttcc	1680
agattacaaa	ggccaagggt	aatagaaatg	cataccagta	attggctcca	attcataata	1740
tgttcaccag	gagattacaa	ttttttgctc	ttcttgtctt	tgtaattctat	ttagttgatt	1800
ttaattactt	tctgaataac	ggaagggatc	agaagataatc	ttttgtgcct	agattgcaaa	1860
atctccaatc	cacacatatt	gtttttaaaat	aagaatgtta	tccaactatt	aagatatctc	1920
aatgtgcaat	aactttgtga	ttagatatca	atgttaatga	tatgtcttgg	ccactatgga	1980
ccagggagct	tatttttctt	gtcatgtact	gacaactgtt	taattgaatc	atgaagtaaa	2040
ttgaaagcag	gacatatgag	aaaactgacc	atcagtatat	ttgtccagat	aattgggtgga	2100

tcaaaaatgc	cacttaacag	gaagtttagt	ttgttatgca	ctttaaatgg	aataattagc	2160
ttgttacaat	tctaggacat	ggtgtttaaa	atttaaatct	gattaatcca	ttttaacaaa	2220
caatgcaaac	attttcagtg	cagaaggaag	agtggtttca	actggttgga	gtcttttatg	2280
aagtgcagtca	acatgtacaa	ccaaagggcg	ggggggggtg	gggggtgcgt	cttttagtcct	2340
aaagggacaa	taactctgag	catgccccaa	aaaagtagct	tagcaacctt	ttgttggtag	2400
tcaacccatc	ccaggggcca	tagtgtagag	tgtgaaaagc	tacctgaaa	cccagtaatc	2460
ctacctgaa	agtgactgcc	tgacagaaag	ccagcagttg	atattaaagc	gcaaatgaat	2520
tcaacctcag	ccctgaaaat	aacagaattc	tgaagtttcc	tatgactaat	tcacaaaaaa	2580
agtaattgta	aactagtact	attatggaat	tactctactg	ttctttcttt	aatagtggca	2640
aatgaaagca	taagcttaag	cattttttca	tattctgaag	tctcaccaca	cataataacc	2700
aagtggtaga	ctcacagccg	tccaacttaa	aaaggcaaaa	ccttaccttg	gaattggaat	2760
tactgtaaac	agcctactga	aaatgcattt	ttatcatgta	acattcttct	acttgtttaa	2820
cattgctgat	tttctctggc	agcataattt	tgtggttaag	agaatgaatt	ctgaatgtac	2880
acttctctgc	tcaaaccctg	gctgtaattt	cagctagtta	ataattcttt	gtgttcagtt	2940
ccactatcta	ggtattttct	tcaaaaggta	aatacaatgg	tttctgaaag	aatcatttgc	3000
attatcagcc	tgtttgggat	gtctgagatc	agtgccctctg	ggttgttaat	actgtattgc	3060
tgtatgggat	atgtatgctg	atttactact	tatgcgtaag	tggtatgcat	gggatgtctg	3120
aaatcagtg	ctatgggttg	tcaatagtat	taactattag	tgtaaactgt	tagtattaac	3180
tattagtatt	attaacacta	ataatagtac	tattactatt	actattttta	ttttaaaata	3240
aaatttacct	ttaaaataat	aatagtgcta	ttgctagtac	tagtactatt	gctattactg	3300
ggtactatta	ctagtactag	tactatgaca	ctgttaatag	tactattaac	aacctatagg	3360
cacttgggat	gtctgagatc	agtgcctatg	ggttggttagt	actataattgc	tgtatgggat	3420
atgcagctgc	tattaccact	tatgcataga	tatatcttta	ataagtaatc	taaaaatcct	3480
ttttgtatct	gagagaatct	actaagttca	gtccagtcaa	gnaaagaacc	taatagcacc	3540
aatacaaat	gaggacttaa	tttacttttg	aatgttgaat	tgcatthgtt	ccattaaaaa	3600
aaacagaaat	ttgcgatttg	gtttttttga	aaanntagct	cagctgacca	gaatgaatgt	3660
attctacttg	ttgagccatc	cagcatcaag	ttaaatgcna	aatg		3704

<210> 124

<211> 5301

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 239694.6

<220>

<221> unsure

<222> 1712-1853, 2182

<223> a, t, c, g, or other

<400> 124

ggcgcccccg	ccccgccccg	cccgctgct	ccatggcgct	gtgcggaggc	cgcgggctgc	60
ggggagtgcc	ctgctctggc	ctcgcttggt	gctcttcggg	gactccatca	cccagtttcc	120
cttcacagcag	ggtggatggg	gagcatcgct	ggctgacagg	ctggtcagaa	aatgtgatgt	180
tctgaatcgt	ggattttcag	gttacaatac	cagggtggcc	aaaattatcc	ttccaagatt	240
aatcaggaaa	ggaaacagtt	tggacatccc	agtagcagtt	acaattttct	ttggggccaa	300
tgacagtgca	ctaaaagatg	agaatcccaa	gcagcacatt	cccctggagg	agtacgctgc	360
gaacctaaag	agcatgggtg	agtacctgaa	gtccgtggac	atccctgaga	atcgagtcac	420
tctcatcacg	ccgacccccac	tttgtgaaac	agcctgggaa	gaacagtgca	tcatacaagg	480
ttgcaaaacta	aatcgccctga	actctggttg	tggtgaatat	gccaatgcgt	gtttacaagt	540
ggccaagac	tgtgggactg	acgtacttga	cctgtggacc	ctgatgcagg	acagccagga	600
cttctcatct	tatttatcag	atggactaca	tttgtctcca	aaggggaaatg	aatttttgggt	660
ctcgcatctc	tggcctttga	tagagaaaaa	ggtctcttct	ctacctttgc	tgcttccctta	720
ctggcgggat	gtagcagaag	caaaacctga	attaagtctg	ctgggagatg	gagaccatta	780
gccaatcaca	ggagacccaa	atctgcttgt	tatctacaga	actcaaagtt	gtcaatacgt	840
agaggtacgc	tttttctctc	aggcttaaac	ctttgccact	gatattaata	ataaaagtat	900
tagatgattt	ttcaggggaag	ttttatactt	agggtccattg	tgtttcgaca	gtatttatta	960
atgcagatgt	gctataaaat	ataccctgag	cagcttggtta	attctataaa		1020
tgacaaagac	tatgttttta	aaaagtcaaa	attttataaa	aatgggtttt	cttacattct	1080
tttgagaact	gtttcactca	tacatacacc	cacacacccc	actcaacctt	gtatcaaatt	1140
ccaaaagtgt	aactaaagta	taagaatatc	atgactagtt	aaaagatagc	aaataccata	1200
aggtacaagt	tcaagtatta	gtataacaag	tatctgagta	acaaatgtcc	ttggaaatgg	1260
ggggtaggag	gagcatatgat	tagtcacagg	tttggttaac	tgccctcaaa	atttacaagt	1320
taaaatgttt	tggctgggtga	gcacatttca	gttcttaggg	gaaaaaaagc	ttttaatggc	1380
aatttataga	aatcagaatc	caggctaattg	atttttatcc	ttcacacagt	aaatgcagcc	1440

catccagaat	cctggagcaa	taaagtaaga	agtaattcaa	atatctgctt	gtgggtcaat	1500
aaaaagggtt	tctgaagtat	caagtcttgt	ggggacagcc	cccaacccta	agggcaggta	1560
gtattctatc	tccctggctgg	ctcatcacat	tcaaaacaac	ctgttttttt	tggtgtgtgt	1620
gttgtaaaga	aatatctcac	cctcttattc	aatagtgttt	gaaaacaggc	aatctttgta	1680
ttttaaatag	tctaggtttg	tagatagtga	annnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1740
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1800
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnncatgtat	1860
ccctatcagt	aacagggata	catgaagata	cttataaaat	acagaaaaac	tgcccagcaa	1920
atcaggggcc	taaacagttg	gtagattcca	taaattcaac	tggtaccat	gtatagccct	1980
cactgtaagg	taggtgggta	ggtttctaga	gagcattagt	cttagaatta	tgaagagcca	2040
tattaacca	aatgatttct	aaatttagat	atatattttc	cctgtacat	aaaaactctg	2100
ggtaataact	agaaatagac	ccacaattta	gagacaatgt	atactagatt	tatctccttt	2160
gtttttagtt	gaaggcaaaa	anaaaaaaact	aaaaaaaact	attccagttg	tcatacaaaa	2220
taaatgcaaa	atgcctcata	ttcagcgggt	cattacagt	tataaaaaaa	aactgacat	2280
ttccctagtc	agtgtctgta	tcaatataaa	agattaattt	acaaaaacgt	aaatattcat	2340
aacccaatcc	agctgtattt	tctgtttttg	caccacagg	caaaaagata	tttaaaaact	2400
aaaacctgaa	agcctcaaaa	taagctagat	tcaccttcac	cttacctttt	caaaaggaga	2460
agggccaaaac	cacacaagaa	ctgtttacct	gcagggaagt	caaacacatg	accagcatct	2520
gctaagtcac	ttcccagttc	tcacaaaata	caagctgtga	ttgatttgta	ggtcaaatct	2580
ataaaaaatat	tttgcacact	taagtcagaa	gagctgagaa	ctaaattagc	actctgtttc	2640
tttgcgtgca	acacgattct	gacgtctcag	tttaaaggag	gcagcctttt	cacttctggg	2700
gaccggatgg	tcctgagatg	cctcaaatga	cttggcagct	gtgctgctat	ttgggaagg	2760
gtccttctct	aacccatcct	cgtccatagt	tgagtctgtg	ctggggtctt	cctggatggg	2820
gtccattctc	tggtgggtcca	gttttggagc	tgctggcgcc	gaagggatca	caggggcagg	2880
ctgcaggcgg	cctggagttc	ggggcgccagg	aaaggggttg	ataatgcgaa	ccgatgcaga	2940
atccatctgt	ctcagcattt	cgacgttact	ggggtgaaac	agagacagag	attcatactg	3000
tttatccaat	ttcttatcca	cacaatggac	aagaatgctg	aaaggaatoc	aaaaatatcaa	3060
ggagaaaacc	aggacagacc	caacgatgtt	gtctgtctaa	aactttccaa	aagtattgat	3120
gctcagctgg	tcaatgaaat	cccaaaatcg	ttcaattaca	tcctgtactc	gtttctcaca	3180
tttgcattc	atgtcacaaa	atcctactgt	acagggtctt	cctttcctca	aaaataagtt	3240
ctttgttcca	gcatcgacat	agggcacaca	gcggccagaa	aggtccctgc	agcacacctt	3300
gcaggagtgg	tcagtttcat	tacatgcaca	ggactccagc	tgctgttccc	tctcgcagaa	3360
agggatgcat	ttcccacctc	tacacttgcc	aagatccaag	caaacagtgt	catcttcagc	3420
atctctgga	ggcgggcact	cactgtctat	acctgtgcag	taggacacgc	ctttgcaagt	3480
agcatttaac	gcctcctggc	acttcttctg	ggcagctcca	aactgacagt	ttttacagca	3540
aggactgttc	ctgtcactgc	actggacacc	ttccttcaac	gtgcagtcgc	tggtgcagca	3600
ggtgtcgttg	ttcagataca	tgatgccagg	atcacactct	tctccttcat	ccaccctcga	3660
gttcccacaa	actttattgc	tgcgttcttg	aaaacactcc	tgggccttac	tttcaatggg	3720
ccttatagatt	gattgtttac	tgcagtttga	aaacatctta	ttgttctcgt	gatcgccact	3780
cacagctatg	ggatacatga	catatttccc	tcctgggtcc	tcattcgggg	cacattctgc	3840
tagaccatcc	ggatcatggt	ctgtctccaa	attatgtccc	aattcatgag	ttgtaaccag	3900
gtcagcttcc	tttgtaagga	tggtttttacc	ataattcttt	gtgctcgtca	aaccactatt	3960
caaatagata	tttttcttcc	caactgggct	ataataagcc	tttggaacaa	cacctccatg	4020
gctgtttgct	ctgggagagc	caacataagc	taatccaaga	gttcccatat	caaaatcttg	4080
gtatgtgaaa	aggtgtgcca	agcaaaacttt	agatgcttcc	tcagctatat	caaagctaaa	4140
ttgctctagc	aacatcttca	catoccaaagc	atccttttct	tcatttgggt	aactttttgc	4200
catgtttag	tgctttttcac	caggtttttac	ctcttgtgga	gacttgagaa	tgcgaaatctg	4260
ctctatctgt	attccatagc	ctttaaaacc	tgatttatcc	catgaagtgt	tccgatagat	4320
gtcatcaact	ctgtcaatta	gctctattaa	gtaatttgta	gttgtaactc	cttccccctc	4380
gcccattgat	ctgtagaagc	gatgatctgc	taccaccaat	aatttacacg	tgttcttcat	4440
gggatctggg	tcagctcttc	ttttcactcg	atgaacaagc	tcttcagggtg	gttctctgtc	4500
tactaacctc	tttgggagca	actcttctatt	atccactttt	aaataaccac	acacttttgg	4560
agactgcaaa	cgtgaaacat	tcttgatata	ttcagattta	taaaactaaca	ttcttttggc	4620
tttggtatca	ttaacaaatc	tccaaagtgg	ctctatgtta	tattcggtccc	catctgtgtt	4680
gattctgatt	ataacatcat	catctcttat	gtgggctaga	accctagagt	caggctcacc	4740
aaccacgtgt	ccagtgaaga	agtctctgcca	ttttacagt	tactcgcttt	cgtttttacc	4800
atccaccacc	acgaccttga	aattttgtga	aaaacgttca	gtacttgatg	tcaggatata	4860
tttaaaatgc	cttttcaag	ctgaaaaagt	tagtagtggt	tctacatgtg	ttgaagtctg	4920
tagatctctt	tttcttaccg	aatgctgtctg	gatattagat	aaagagagaa	tatcgtagtc	4980
tgagagcaaa	gaatcaagct	tctcgagtct	ctgggtggggg	ccgaagcccg	ggtcatccgg	5040
aggtctcgccg	gccagccaga	aagggaaccac	gctgggtcagg	aataggagag	actgcctcat	5100
gttcccgcc	ccgctaccga	ctccacctct	ctgggcagcc	ttcgctgac	gggggttcgg	5160
aaaactgctc	acatcggggg	aggacgggat	ccgcccggcc	tagccccctca	atcctctttt	5220
ccctcccgcg	ccgctactg	ggaagattct	accgccaggc	tcgacgcccc	cgggaagtga	5280
ggtggcggtta	ccaaaggccg	g				5301

<210> 125

<211> 2805
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 255772.2

<400> 125
gagcattggt aagcgtcaca ctgccaaagt gagagctgct ggagaactca taatcccagg 60
aacgcctctt ctactctccg agtaccacag tgaccagagt gagagaagct ctgaacgagg 120
gcacgcggct tgaaggactg tgggcagatg tgaccaagag cctgcattaa gttgtacaat 180
ggtagatgga gtgatgattc ttctgtgct tatcatgatt gctctccct cccctagtat 240
ggaagatgag aagcccaagg tcaaccccaa actctacatg tgtgtgtgtg aaggctcttc 300
ctgcggtaat gaggaccact gtgaaggcca gcagtgtttt tcctcactga gcatcaacga 360
tggcttccac gtctaccaga aagggtgctt ccagggtttat gagcagggaa agatgacctg 420
taagaccccg ccgtccctcg gccaaagcgt ggagtgtgc caaggggact ggtgtaacag 480
gaacatcacg gccagctgc ccactaaagg aaaatccttc cctggaacac agaatttcca 540
cttggagggt ggcctcatta ttctctctgt agtgttcgca gtatgtcttt tagcctgcct 600
gctgggagtt gctctccgaa aattttaaag gcgcaaccaa gaacgcctca atccccgaga 660
cgtggagatg ggcactatcg aagggtcat caccaccaat gttggagaca gcacttttagc 720
agatttattg gaacatctgt gtacatcagg aagtggctct ggtcttctt ttctggtaca 780
aagaacagtg gctcgccaga ttacactgtt ggagtgtgtc gggaaaggca ggtatggtga 840
ggtgtggagg ggcagctggc aaggggaaaa tgttgccgtg aagatcttct cctcccgtga 900
tgagaagtca tgggttcaggg aaacgggaatt gtacaacact gtgatgtctga ggcataaaaa 960
tatcttaggt ttcatgtctt cagacatgac atcaagacac ttacgactat cttcagctta ctactctgga 1020
aattacagat tatcatgaaa tgggatcgtt catagctagt ggtcttgcac atttgacat 1140
tacagttagc tgccttcgaa tagtgtgttc cattggccat cgagatttaa agagcaaaaa 1200
agagatattt gggacccaag ggaaccagc gacagtgttg catagcagat ttgggcctgg cagtcatgca 1260
tattctggtt aagaagaatg ttgatgtggg gaacaatccc ccagggtggat tgtttcgatt cttataaaag 1380
ttcccagagc accaatcagc atgaaacat gtgggaagtg gccaggcgga tggtagcaa 1440
catggccccc gaagtcttag gacttggttt ctacgatgtg gttcccaatg acccaagttt 1500
ggtcgatatt tgggcctttg agccacggtt tctgtgtgga tcaacaaagg caagctaatt aaagaatgct 1560
tgaaagatat aggaaggtag tctgtgtgga caagctaatt caaaaagact ttgacaaaaa ttgataattc 1680
gttctcagac ccgacattaa cctctctggc cactgcgtat ttttcatagt gtcaagaagg aagatttgac 1740
tccatccgca agactcacag actgttgaca gctggcctga ctggtgtca gaatggaatc 1800
cctcgacaaa ttgaaaactg gggacctaact cctcccctgt ggcatgtg cagccatgtg 1860
ggtgtgtctc cctcccctgt ccctaacctc gctcgatgac tgtgaactgg gcatttcacg 1920
aactgttcac actgcagaga ctaatgttgg acagacactg ttgcaaagggt agggactgga 1980
ggaacacaga gaaatcctaa aagagatctg ggcattaagt cagtggcttt gcatagtctt 2040
cacaagtctc ctgacactc ccacaggga actcaaggag gtggtgaatt tttaatcagc 2100
aatattgcct gtgcttctct tctttattgc actaggaatt ctttgcattc cttacttgca 2160
ctgttactct taattttaaa gacccaactt gccaaaatgt tggctgogta ctccactggg 2220
ctgtctttgg ataataggaa ttcaatttgg caaaacaaaa tgtaattgtca gactttgctg 2280
cattttacac atgtgctgat gtttacaatg atgcgaaca ttaggaattg ttatacaca 2340
actttgcaaa ttatttatta cttgtgcact tagtagtttt tacaaaactg ctttgtgcat 2400
atgttaaagc ttatttttat gtggtcttat gattttatta cagaaatggt tttaacacta 2460
tactctaaaa tggacatttt otthttattat cagttaaaaa cacattttta gtgcttcaca 2520
tttgtatgtg ttagactgt aacttttttt cagttcatat gcagaacgta tttagccatt 2580
accacgtga caccaccgaa tatattactg atttagaagc aaagatttca gtagaatttt 2640
agtctgaac gctacgggga aaatgcattt tottcagaat tatccattac gtgcatttaa 2700
actctgccag aaaaaataa ctattttgtt ttaatctact ttttgtattt agtagttatt 2760
tgtataaatt aaataaactg ttttcaagtc aaaaaaaaaa aaaaaa 2805

<210> 126
<211> 2835
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 232066.3

<400> 126

```

gtctcccaga tcagtacaca aaggtctgtg ctgccgccag aggaaggact gctctgcacg 60
cacttatgtg gaaactaaag cccagagaga aagtctgact tgccccacag ccagtgaagt 120
actgcagcag caccagaatc tgggtctgtt cctgtttggc tcttctacca ctacggcttg 180
ggatctcggg catggtgggt ttgccaatgg tecttgtttt gctgctggtc ctgagcagag 240
gtgagagtga attggacgcc aagatcccat ccacagggga tgccacagaa tggcgggaatc 300
ctcacctgtc catgctgggg tcttgccagc cagccccctc ctgccagaag tgcacacct 360
cacacccag ctgtgcatgg tgcaagcaac tgaacttcac cgcgtcggga gaggcggagg 420
cgcggcgtg cgcccgacga gaggagctgc tggctcgagg ctgcccgctg gaggagctgg 480
aggagccccg cgcccgacga gagggtctgc aggaccagcc gctcagccag ggcgcccccg 540
gagaggggtg caccagctg gcgcccagc ggtccgggt cactctgcgg cctggggagc 600
cccagcagct ccaggctccg tctctctgtg ctgagggata cccggtggac ctgtactacc 660
ttatggacct gagtactcc atgaaggacg acctggaacg cgtgcgccag ctggggcacg 720
ctctgctggg ccggctgcag gaagtacccc attctgtgcg cattgtttt gggttccttg 780
tggacaaaac ggtgctgccc ttgtgagca cagtaccctc caaactgcgc caccctgcc 840
ccacccggct ggagcgctgc cagtcacat tcagcttca ccatgtgctg tccctgacgg 900
gggacgcaca agccttcgag cgggaggtgg ggcgccagag tgtgtccggc aatctggact 960
cgctgaagg tggcttcgat gccattctgc aggtctgact ctgccaggag cagattggct 1020
ggagaaatgt gtcccggctg ctggtgttca cttcagacga cacattccat acagctgggg 1080
acgggaagt acgggcatt ttcatggcca ctgatgggca ctgccacttg gacagcaatg 1140
gcctctacag tcgcagcaca gatttgact accttctgt gggtcaggta gccaggccc 1200
tctctgcagc aaatatccag ccatcttttg ctgtcaccag tgccgcactg cctgtctacc 1260
aggagctgag taaactgatt cctaagtctg cagttgggga gctgagttag gactccagca 1320
acgtggtaca gctcatcatt gatgcttata atagctgtc ttccaccgtg accttgaac 1380
actcttcaact cctcctggg gtccacattt cttacgaatc ccagtgtgag ggtcctgaga 1440
agagggaggg taaggctgag gatcgaggac agtgcaacca cgttccgaat caaccagacg 1500
gtgactttct gggtttctct ccaagccacc cactgcctcc cagagcccca tctcctgagg 1560
ctccggggccc ttggcttctc agaggagctg attgtgagt tgcaacgct gtgtgactgt 1620
aattgcagtg acacccagcc ccagctccc cactgcagt atggccaggg acacctaaa 1680
tgtggtgtat gcagctgtgc ccctggccgc ctaggctggc tctgtgagt ctctgtggca 1740
gagctgtcct cccagacct ggaatctggg tgccgggctc ccaatggcac agggccccctg 1800
tgcagtggaa aggttcactg tcaatgtgga tgccagctgt gcagtggaca gagctctggg 1860
catctgtgcg agtgtagcga agtgtagcga ggcgacatg agggcatcct ctgaggaggc 1920
tttggtcgtt gccaatgtgg agtatgtcac tgtcatgcca accgcacggg cagagcatgc 1980
gaatgcagtg gggacatgga cagttagcat agtcccagg gagggtctct cagtgggcat 2040
ggacgctgca gacgcaacc ctgccagtgc ttggacggct actatggtg tctatgcgac 2100
caatgcccag gctgcaagac acctgcccag agacaccggg actgtgcaga gtgtggggcc 2160
ttcaggactg gccactggc caccactgc agtacagct gtgcccatac caatgtgacc 2220
ctggccttgg cccttatctt ggatgatggc tgggtgcaaag agcggaccct ggacaaccag 2280
ctgttcttct tcttgggtgga ggatgacgac agaggcacgg tctgtctcag agtgagacct 2340
caagaaaagg gacgagacca cagcaggcc attgtgctgg gctgcgtagg gggcatcgtg 2400
gcagtggggc tggggctggt cctggcttac cggctctcgg tggaaatcta tgaccgcccg 2460
gaatacagtc gctttgagaa ggagcagcaa caactcaact ggaagcagga cagtaatcct 2520
ctctacaaaa gtgccatcac gaccaccatc aatcctcgtt ttcaagaggc agacagtccc 2580
actctctgaa acacttaccc aaggtcttct tccctggagg acagtgggaa 2640
ctggagggtg agaggaaggg tgggtctgta agacctggg aggggactaa ttcactggcg 2700
aggtgcccgc accaccctac ttcattttca gattgacacc caagagggt gcttcccatg 2760
cctgcaacct tgcattccatc tgggtacccc caccacagta tacaataaag tcttacctcc 2820
gcaacaacaa aaaaa 2835

```

<210> 127

<211> 2409

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 246504.1

<400> 127

```

caggcttgtg tagatcatgc cgccagtagc ggcctgact gccaggaaa cggtagctta 60
ggacagttgg ctgttaagtg acactgattc tcccccccc gctgacccc cgagaaggag 120
gcttgtcccc cgctgcgtga gggggtgggg aagtgggtag tgaattcgga tctacctggg 180
agggggggagt ggaagtcccc gccccggaga gcggcgaggc ggcagccaca gttgattatg 240
gaagattccc acaagagtac cagtcagag acagcacctc aacctggttc agcagttcag 300
ggagctcaca tttctcatat tgctcaacag gatcatctt tatcagaaag tgaggagtcc 360
caggactcat ccgacagcat aggtcctca cagaaagccc acgggaccc agcacggcgc 420
ccatcttaca gaaaaatttt gaaagactta tcttctgaag atacacgggg cagaaaagga 480

```

```

gacggagaaa. attctggagt ttctgtgtgt gtcaettcta tgtctgttcc aactcccatc 540
tatcagacta gcagcggaca gtacattgcc attgccccaa atggagcctt acagttggca 600
agtccaggca cagatggagt acagggactt cagacattaa ccatgacaaa ttcaggcagt 660
actcagcaag gtacaactat tcttcagtat gcacagacct ctgatggaca gcagatactt 720
gtgccagca atcaggtggt cgtacaaact gcacaggag atatgcaaac atatcagatc 780
cgaactacac cttcagctac ttctctgcc acaactgtgg tgatgacatc tcctgtgact 840
ctcacctctc agacaactaa gacagatgac cccaattga aaagagaaat aagggttaatg 900
aaaaacagag aagctgtctg agaatgtcgc agaaagaaga aagaatatgt gaaatgcctg 960
gaaaaccgag ttgcagctct ggaaaactc taatagaaga gttaaaaact 1020
ttgaaggatc tttattccaa taaaagtgtt tgattcctaa gaaagaaaat atttttgtgg 1080
acatgcataa aaattaaatg gatttcttag tggagtttta taaattaaaa ggtcaaaact 1140
gaagcttttt atttaggctt ttccaaatca aggataaata tcttacgcac gatattctagt 1200
gacagaggag aaagtggaaa atgacctcaa ggaagctacg ggcacaaactg gaagccttgt 1260
agaaattaaa catattcaag gagcaagaaa tgaactttca gcagtctaaa ttttctaaat 1320
aaccaatagt tgccaatcta aaatggcaga gaagatgaaa tttgataaac tgaatTTTTT 1380
ttaaaaatcc atttacccta caggtttgca tttgtttgct tttgataaac tttttttagt 1440
tatatatatg tgtgtgtgtg tgggtgtaatt tctgccataa aattctaaat taciaaggta 1500
agagaaaacc tagtactata ctaaaatat aaagtatatg ttctgattat gtatacttgt 1560
tctagtgtca agtcttttta agtgggtttt taaaagtttg ttattggact tgaatggatt 1620
tttgagacta ggtaatttat ttttgaggct ttatcctaaa aggcactcaa ggtacatgaa 1680
tggagtatgg tgattttata acatttttta tcagaatgga aaaagaactg tttaaaagtt 1740
tgatactttt aaatagttgg tttttttgct tactctggta atgattttct acaaatatat 1800
aataaattgt ttttttgatt ctataattctg tatgcagttg aatatccatt acttattctg 1860
ctgtgcttta atagaatgga atgtttacag gcccttaaaa tattattttt aaaaaacctt 1920
ctgaagatac ataccaaagt ttttccaaga agattttata atcaatttaa taatgtaagg 1980
tttatcagat tctataatag aaggcaattt tatgttagag actattttgt 2040
aatgtagtga gtggtacctt tataagaaaa gtgactgcca atatatTTTT atagctgac 2100
tttataaatt ctaatgttga gtttttaatg attattttta atgtttatat agtttagtaa 2160
aatttgcac tcaaagtatc atttttatat tatgggacgt tttcagattg gctaataatt 2220
gcattgtaaa ttttgtatgc agttttatcta aaattcaaaa atactgtcag tacaccagcg 2280
tttaacatct atattccaat ttgtatacag tttaaaattg tactgcaaaa ctattgtgtg 2340
ctcttacaca gtatgcatca tattgttgtc tgtgaaatta aaggacattt gatagtctac 2400
tggaaatga 2409

```

<210> 128

<211> 1939

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No.: 986123.22

<220>

<221> unsure

<222> 41

<223> a, t, c, g, or other

<400> 128

```

aggggacct ctttcctaac ggggttataa aaacagcgcc ntccgcgggg tccagtcctc 60
tgccactctc gctccgaggt ccccgcgcca gagacgcagc cgcgctccca ccaccacac 120
ccaccgcgcc ctgcgttcgc ctcttctccg ggagccagtc cgcgccaccg ccgccgcca 180
ggccatcgcc accctccgca gccatgttcc accaggtccg tgtcctcgtc ctccaccgc 240
aggatgttcg gcggcccggg caccgcgagc cgcgcgagct ccagccggag ctacgtgact 300
acgtccaccc gcacctacag cctgggcagc gcgctgcgcc ccagcaccag ccgcagcctc 360
tacgctcgt ccccgggcgg cgtgtatgcc acgcgctcct ctgccgtgcg cctgcccagc 420
agcgtgcccg ggggtgcgct cctgcaggac tccgttggaact tctcgttggc cgacgccatc 480
aacaccgagt tcaagaacac ccgcaccaac gagaagggtg agctgcagga gctgaatgac 540
cgcttcgcca actacatcga caaggtgcgc ttccgtggagc agcagaataa gatcctgctg 600
gccgagctcg agcagctcaa gggccaaggc aagtcgcgcc tgggggacct ctacaggag 660
gagatgcggg agctgcgccg cagctaaaca cagctaacca acgacaaagc ccgcgtcgag 720
gtggagcgcg acaacctggc cgaggacatc atgcgcctcc gggagaaatt gcaggaggag 780
atgcttcaga gagaggaaac cgaaaacacc ctgcaatctt tcagacagga tgttgacaat 840
gcgtctctgg cagctcttga ccttgaacgc aaagtggaaat ctttgcagga agagattgcc 900
tttttgaga aactccacga agaggaaatc caggagctgc aggcctcagat tcaggaacag 960
catgtccaaa tcgatgtgga tgtttccaag cctgacctca cggctgccct cggtgacgta 1020
cgtcagcaat atgaaagtgt ggctgccaa aacctgcagg aggcagaaga atggtacaaa 1080

```

tccaagtttg	ctgacctctc	tgaggctgcc	aaccggaaca	atgacgcctt	gcgccaggea	1140
aagcaggagt	ccactgagta	ccggagacag	gtgcagtcct	tcacctgtga	agtggatgcc	1200
cttaaggaa	ccaatgagtc	cctggaacgc	cagatgcgtg	aaatggaaga	gaactttgcc	1260
gttgaagctg	ctaactacca	agacactatt	ggccgcctgc	aggatgagat	tcagaatatg	1320
aaggaggtaa	tggtctgca	ccttcgtgaa	taccaagacc	tgctcaatgt	taagatggcc	1380
cttgacattg	agattgccac	ctacaggaag	ctgctggaag	gcgaggagag	caggatttct	1440
ctgcctcttc	caaacttttc	ctccctgaac	ctgagggaaa	ctaactctgga	ttcactccct	1500
ctggttgata	cccactcaaa	aaggacactt	ctgattaaga	cggttgaaac	tagagatgga	1560
caggttatca	acgaaacttc	tcagcatcac	gatgaccttg	aataaaaatt	gcacacactc	1620
agtgcagcaa	tatattacca	gcaagaataa	aaaagaaatc	catatcttaa	agaaacagct	1680
ttcaagtggc	tttctgcagt	ttttcaggag	cgcaagatag	atttggaata	ggaataagct	1740
ctagttctta	acaaccgaca	ctcctacaag	attttagaaa	aagtttataa	cataatctag	1800
tttacagaaa	aatcttctgc	tagaataact	tttaaaagg	attttgaata	ccattaaaac	1860
tgcttttttt	tttcagcaa	gtatccaacc	aacttggttc	tgcttcaata	aatctttgga	1920
aaaactcaag	aaaaaaaa					1939

<210> 129

<211> 5024

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 898945.14

<220>

<221> unsure

<222> 2112-2457

<223> a, t, c, g, or other

<400> 129

gagacacaga	aatcagtgct	actcagtgac	agaagcaaca	ataattgtga	aaaatacttc	60
agcagttatg	gactcatctg	tcattcaaa	gaaaaaagta	gctgtcattg	gtggtggctt	120
ggttggctca	ttacaagcat	gctttcttgc	aaagaggaat	ttccagattg	atgtatatga	180
agctagggaa	gatactcgag	tggtacacct	cacacgtgga	agaagcatta	acttagccct	240
ttctcataga	ggacgacaag	ccttgaaagc	tggtggcctg	gaagatcaga	ttgtatccca	300
aggtattccc	atgagagcaa	gaatgatcca	ctctctttca	ggaaaaaagt	ctgcaattcc	360
ctatgggaca	aagtctcagt	atattctttc	tgtaagcaga	gaaaatctaa	acaaggatct	420
attgactgct	gctgagaaat	accccaatgt	gaaaatgcac	tttaaccaca	ggctgttgaa	480
atgtaatcca	gaggaaggaa	tggtcacagt	gcttggatct	gacaaagttc	ccaaagatgt	540
cacttgtgac	ctcattgtag	gatgtgatgg	agcctattca	actgtcagat	ctcacctgat	600
gaagaaacct	cgctttgatt	acagtcatga	gtacattcct	catgggtaca	tggagttgac	660
tattccacct	aagaacggag	attatgccat	ggaacctaat	tatctgcata	tttggcctag	720
aaataccttt	atgatgattg	cacttccctaa	catgaacaaa	tcattcacat	gtactttgtt	780
catgcccttt	gaagagtttg	aaaaacttct	aaccagtaat	gatgtggtag	atttcttcca	840
gaaatacttt	ccggatgcca	tccctcta	tggaagagaaa	ctcctagtgc	aagatttctt	900
cctgttgctt	gcccagccca	tgatatctgt	aaagtgcctt	tcatttcaact	ttaaatctca	960
ctgtgtactg	ctgggagatg	cagctcatgc	tatatgtccg	ttttttgggc	aagggaatgaa	1020
tgcggtcttt	gaagactgct	tggtatttga	tgagttaatg	gataaattca	gtaacgacct	1080
tagtttgtgt	cttcctgtgt	tctcaagatt	gagaatccca	gatgatcacg	cgatttcaga	1140
cctatccatg	tacaattaca	tagagatgcg	agcacatgtc	aactcaagct	ggttcatttt	1200
tcagaagaac	atggagagat	ttcttcatgc	gattatgcc	tcgaccttta	tccctctcta	1260
tacaatggtc	actttttcca	gaataagata	ccatgaggct	gtgcagcggt	ggcattggca	1320
aaaaaagggtg	ataaacaag	gactcttttt	cttgggatca	ctgatagcca	tcagcagtac	1380
ctacctactt	atacactaca	tgtcaccacg	atcttttctc	cgcttgagaa	gacctgggaa	1440
ctggatacct	cacttccgga	atacaacatg	tttcccgcga	aaggccgtgg	actccctaga	1500
acaaatttcc	aatctcatta	gcagggtgata	gaaagggttt	gtggtagcaa	atgcatgatt	1560
tctctgtgac	caaaattaag	catgaaaaaa	atgtttccat	tgccatattt	gattcactag	1620
tggaagatag	tgttctgctt	ataattaaac	tgaaatgtaga	gtatctctgt	atgttaattg	1680
caattactgg	ttgggggggtg	catttttaaaa	gatgaaacat	gcagcttccc	tacattacac	1740
acactcaggt	tgagtcattc	taactataaa	agtgcattga	ctaagatcct	tcacttctct	1800
gaaagtaagg	ccctagatgc	ctcagggaag	acagtaataca	tgctttttct	ttaaaagaca	1860
caataggact	cgcaacagca	ttgactcaac	acctaggact	aaaaatcaca	acttaactag	1920
catgttaact	gcacttttca	ttacgtgaat	ggaacttacc	taaccacagg	gctcagactt	1980
actagataaa	accagaaatg	gaaataagga	attcagggga	gttccagaga	cttacaaaaa	2040
gaactcattt	tatttttcca	ccttcaaata	taagtattat	catctatctg	tttatcgtct	2100
atctatctat	cnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2160

```
nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 2220
nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 2280
nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 2340
nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 2400
nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnncag 2460
agttaccctc taaagataag aaaaaggcta ttaatatcat actaagtga ggacaggaaa 2520
gggttttatt cataaattaa atgtctacat gtgccagaat ggaaaggaaa caaggggaga 2580
caacttttat agaaatacaa agccattact ttattcaatt tcagaccctc agaagcaatt 2640
tactaattta ttcttcgact acatactgca gcagaaccag caatacactt gattttttaa 2700
agcacattta gtgaaatgtt ttcttttggt catccttctt taacaggctg ctgagtcact 2760
cagaatcct tcaaacatga ttaattatga agatgaaaca ctgagtcact ataagaaata 2820
aaaattgggc aataaaataa aatgattcag tgtatctttt ctatatgtgc aatgaaaacc 2880
ttgagttcta ataattccatg ttcatgttgc agggaaagaa aaaataattt ttccttctaa 2940
ccactttagg ttctttggtg ggggccccta taacaaaaga cagattgaca agagaaaac 3000
aaacataaat ttattagcgg gtatatgtaa tatatatgtg ggaaatacag gggaaatgagc 3060
aaatctcaaa gagctggcgt cttagaactc cctggccttat atagcatcga caaagaacag 3120
taaaatggta gagaacaac aaaacaaaga aaaagagctt tgagtctgta ggggcagcaa 3180
tttgggggaa gcaaatatat gggagtttgc cttgttagatt cctctgggtg tggtctccag 3240
gctgacaagg attcaaagtt gtctctgaaa ctctctttg tcatactgca catataaaac 3300
gtcttttggt tccaacaaga ggatttcttt ttcatcttag aattatctcc ttgataactt 3360
gatcagatat aggacatgac actgaataga gtccaacagt acaaaaaaaa ttcagtatgt 3420
tctagctact tcacacatgt gtacgcgaca gttattttta cagtaaggta ttttcgagaa 3480
aaatgcatta cgtgttttgg aaaatagagt aatttaaaaa atatatttga aatgaaaatc 3540
tccaacacat tagaagatga tgatgttaga tgcccatcgt gtgccacaag tggttttttc 3600
attatgtaaa gcaccggtg aattaaaaga atttggtttt gttcaacctc ttcttgaggc 3660
ccaagagcat atgggcaatt cggatttctt gctggaccac aaggttctgt tgatattaca 3720
tagaaacggg tatccagac acttcttatg atgaaagtcc aaaagtggca tccaatttaa 3780
ggcccatctt ttctgtgcca ttcttcattc ctacaaagga cgaacttgga ttacatcaac 3840
tttggaccga ttggttttgt cgctgtcgtc aactgacagt gattcatcac tgggtgatgat 3900
aaaaatgatg gaagaagagt tgaaagtcac ttttttcttt ggctgtccc catctttctg 3960
tgacatcaca atgggtctga tctgcatttc acttccagct gctggtaggt ctttagcagg 4020
cctctggcac ctgagcagtc ggaggcacag aagctgcaaa agggatcttc gaaactgggc 4080
agagaaaaaa taaagtggaa tattaagtaa aagttgggca ctaatctgga ttaacattcg 4140
aggaaatcag ttgagctgaa ttttaagttg tttttgtttg ttagcagggtg tggatgtggg 4200
gttatgtggt catgctcaga tctacctaata tcaccocaga gctttatgtc ttttattcat 4260
tctaattctt attaacggga atatgttaga ccatttcaat accttgtaat cctccaagct 4320
tcaatctgca cacactttct atgagggcag gtacaactat taagagattt tgaacattaa 4380
gttagtcocac aaatattcag tgggcatcta ctaggtgaca gccactgtgc tataattaga 4440
gactttttac tataagcatc aaaaacagat aaggtctctc ctggcagagt ttacagcctg 4500
gtgtacttgc taatgtctct ttaattaggt gaagaatttt tttttctat cgaaattact 4560
aatcagttgg ggaaaaaaat actatagcag acagcactaa tgtcatcaac aaacattgtt 4620
cttctccgtg tcctgggtac aacatccaat aatatttctt ggctctcttt ccgcttctcc 4680
tcttgtgtgt tcctctctac aagaacctgg ggggccaacg cctaaagatc ataatatcac 4740
acaatggaag gaacctagat tcctaaatga ctgcatagga cagatcccat ctctccacc 4800
caatacatta ttagactgaa ctgtgacctg aaatgagcaa taaactctgt attaatcac 4860
tgaaatgttg ggggtgtctg ttatagtagt cgggtccatca tgaccagtaa aacataaate 4920
aaaagttaat gtaattgtta tcccattatt tagagcgaaa taaatgttga atatatggac 4980
tttctcagat taggaaatac caattaaaaa tataataaat agct 5024
```

<210> 130

<211> 4563

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 236208.16

<400> 130

```
cagttttcat tgttttcagt aagctgacct ccaaaggcat agatgtgagc tttcttttga 60
aaggaaatga agtattcacc gttaaggata aggatgtttg taatgtgaca gtgttaatgc 120
tagctaaatg agaaagccat atatgaatac ttagactgtt gctacctggg agcattatct 180
attgacctgt gccttcgtoa gagcttcaga tgtgagggga atgatgctaa tagaatcatg 240
taaagatgtt tgtcattaaa aagtcacatc gcaattaata gattcagaat tcatcgagtc 300
ctctgtctct ctgtcacacc cgctgcctct tcatttccta cttagcaaat 360
ccaagcctgg tagctggagc cccaggaagt gtgtaaagca attaaaggct tctgtctccc 420
agcacattgc ttggttacca tagtatcctc tgccctcaag tctctctgta tgatgtcagt 480
```

atgcatacag	gggttggtca	gatcatctac	gtggggatga	ttcaccacac	aataaagccc	540
ctctctctcg	ttgctcgttt	tcagtggtga	tttcagacat	ctgtagcaat	ggaaggttct	600
gaatgatgac	tgacgcgggt	ttgggtgata	cccctcacag	cccctgtcat	tccggagtga	660
taaggcaccc	gcgcgtctag	cccagcgccg	agggcgacgc	agcggcgctg	gagggaggaa	720
agcttccgcc	tgccggcccg	acaaaagtcc	cgcttgccca	cggctttttg	ccgcccgtcc	780
gtgaccgaga	cgctctgcgc	cgccagctcc	gctgctctcg	ctggcggatg	gtgtgtggcc	840
gccgcaggac	gcccgcgtg	cccgggccat	gaagtagcgg	ctgctggcgg	cgccgctgcc	900
caaccgccag	ccccagcccc	gcgctgcgct	gcccgggtcct	ctcccggcgg	ggtcgtatcg	960
gcgtggacat	ggttggtccg	gtccctagcc	tgctagtctt	ccttggtttt	ccaagcagct	1020
gtttggcttt	ccgaagccca	ctttctgtct	ttaagagggtt	taaagaaact	accagaccat	1080
tttccaatga	atgtcttggt	accaccagac	ccgtagtctc	tattgattca	tcagattttg	1140
cattggatat	tcgatgcct	ggggttacac	ctaacagtc	cgatacatac	ttctgcatgt	1200
ctatgcgaat	ccagtggat	gaggaagcct	tgctgattga	cttcaagcct	cgagccagca	1260
tggatactgt	ccatcacatg	ttactttttg	gatgcaatat	gccttcatec	actggaagtt	1320
actggttttg	tgatgaagga	acctgtacag	ataaagccaa	tattctgtat	gcctgggcga	1380
gaaatgctcc	ccctaccogg	ctccccaag	gtgttggtat	cagagtggga	ggagagactg	1440
gaagtgaat	aaagtgtact	caggtacact	atggggatat	tagtgctttt	agagataata	1500
acaaggactg	ttctggtgtg	tccttacacc	tcacagctct	gccacagcct	ttaattgctg	1560
gcatgtacct	tatgatgtct	gttgacactg	ttatcccagc	aggagaaaaa	gtggtgaatt	1620
ctgacatttc	atgccattat	aaaaattatc	caatgcatgt	ctttgocctat	agagtccaca	1680
ctcaccattt	aggtaaggt	gtaagtggat	acagagtaag	aaatggacag	tggacactga	1740
ttggacggca	gagccctcag	ctgtccacag	ctttctaccc	tgtggggcat	ccagttgatg	1800
taagttttgg	tgacctactg	gctgcaagat	gtgtattcac	tgggtgaagga	aggacagaag	1860
ccacacacat	tggtggcagc	tctagtgtatg	aaatgtgcaa	cttatacatt	atgtattaca	1920
tgggaagccaa	gcattgcagt	tctttcatga	cctgtaccga	gaatgtagct	ccagatatgt	1980
tcagaacctat	accaccagag	gccaacattc	caattcccgt	gaagtctgat	atgggtatga	2040
tgcatgaaca	actcataaag	cttctttgat	cctttacaga	aacagaatat	aaagataaga	2100
ttcctttact	acagcagcca	aaacgagaag	aagaagaagt	gttagaccag	ggtgatttct	2160
attcactact	ttccaagctg	ctaggagaaa	gggaagatgt	tgttcatgtg	cacaaatata	2220
atctctacga	cacagcagaa	tcagagtcat	acctggtagc	tgagattgca	aatgtagtcc	2280
aaaaaaagga	tcttggtcga	tctgatgcc	gagaggggtg	agaacatgag	aggggtaatg	2340
ctattcttgt	cagagacaga	attcacaaat	tcacacagact	agtatctacc	ttgaggccac	2400
cagagagcag	agttttctca	ttacagcagc	ccccacctgg	tgaaggcacc	tgggaaccag	2460
aacacacagg	agatttccac	atggaagagg	cactggattg	gcctggagta	tacttggtac	2520
caggccagggt	ttctggggtg	gctctagacc	ctaagaataa	cctgggtgatt	ttccacagag	2580
gtgaccatgt	ctgggatgga	aaactcgttg	acagcaagtt	tgtttaccag	caaataggac	2640
tcggaccaat	tgaagaagac	actattcttg	tcatagatcc	aaataatgct	gcagtactcc	2700
agtccagtgg	aaaaaatctg	ttttacttgc	cacatggctt	gagtatagat	aaagatggga	2760
attattgggt	gctctccatc	gggaaggagca	agggtgtcaa	actggatcca	aacaataaag	2820
aaggccctgt	attaatcctg	gtggaagagca	tgcaaccagg	cagtgaaccag	aatcacttct	2880
gtcaaccac	tgatgtggct	gtggatccag	gcactggagc	catttatgta	tcagatgggt	2940
actgcaacag	caggattgtg	cagttttcac	caagtggaaa	gttcatcaca	cagtggggag	3000
aagagtcttc	agggagcagt	cctctgccag	gcccgttcac	tgttcctcac	agcttggtcc	3060
ttgtgcctct	tttgggcca	ttatgtgtgg	cagaccggga	aaatggtcgg	atccagtgtt	3120
ttaaaactga	caccaagaa	tttgtgagag	agattaaagca	ttcatcattt	ggaagaaatg	3180
tattttgcaat	ttcatatata	ccaggcttgc	tctttgcagt	gaatgggaag	cctcattttg	3240
gggaccaaga	acctgtacaa	ggattttgta	tgaacttttc	caatggggaa	attatcgaca	3300
tcttcaagcc	agtgcgcaag	cactttgata	gcctcatga	tattgttgca	tctgaagatg	3360
ggactgtgta	cattggagat	gctcatacca	acaccgtgtg	gaagttcacc	ttgactgaga	3420
aattggaaca	tcgatcagtt	aaaaaggctg	gcattgaggt	ccaggaaatc	aaagaagccg	3480
aggcagttgt	tgaaccacaa	atggagaaca	aacccacctc	ctcagaattg	cagaagatgc	3540
aagagaaaaca	gaaactgatc	aaagagccag	gcctcgggag	tgctgttgtt	tctcattaca	3600
acccttcttg	ttattccggt	ggttgtctcg	ctggccattg	ccatatttat	tcggtggaaa	3660
aaatcaagg	cctttggagc	agattctgaa	cacaaactcg	agacgagttc	aggaagagta	3720
ctgggaagat	ttagaggaaa	gggaagtgg	ggcttaaacc	ttggtaattt	ccttgcaagc	3780
cgtaagggtc	acagtcgaaa	agggtttgac	cggcttagca	ctgagggcag	tgaccaagag	3840
aaagaggatg	atggaaagtga	atcagaagag	gagtatccag	cacctctgcc	tgcgctcgca	3900
ccttctctct	cctgaaaacc	aagctttgat	ttagattgag	taagattttac	ccagaatgtc	3960
agattccttt	cccttttagca	cgtttaaaagt	tctgtgtatt	taattgtaaa	ctgtactagt	4020
ctgtgtggga	ctgtacacac	tttatttact	tcgttttgggt	taagttggct	tctgtttcta	4080
gttgaggagt	ttcctaaaag	ttcataacag	tgccattgtc	tttatatgaa	catagactag	4140
agaaaccgtc	ctctttttcc	atcataatcc	taatctaaca	atggaagatt	tgcccathta	4200
cacttttgag	actttttggt	ggatgtaaat	aacccatttc	tttgcttgaa	cacagtattt	4260
tcccaatagc	actttcattg	ccagtgtctt	tctttggtgc	ctttcctggt	cagcattctt	4320
agcctgtggc	aataaagaga	aactttgtgc	tacatgacga	caaagctgct	aaatctcta	4380
tttttttaaa	atcactaaca	ttatattgca	atgaaggaaa	taaaaaagtc	tctatttaaa	4440
ttctttttta	aattttcttc	agttggtgtg	tttttgggat	gtcttatttt	tagatggtta	4500

cactgtttaga acactatattt cagaatctga atgtaatttg tgtaataaaag tgtttcagag 4560
cat 4563

<210> 131
<211> 1630
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 246531.2

<400> 131
agctgagctg cgggctgaat gtcagggtgat gcgtcctgac ctcttctctga gcacctagtg 60
tgtgcccctgt gctggggccca ggaggcatgc tgggggcaat gtgggcctca aggaggagggt 120
cgggtgatga gggggccaacc caggggcatg gtctagtggc ccagtcagga cgcggaaaca 180
ctccctggag gttctgacct gctccctctc agcctccgcc tgggtctctgg tgtagtccgc 240
gccgccagcc gccatgggca aacagaacag caagctgcgg cccgagggtgc tgcaggacct 300
gcggggagaa acgggagtcca ccgaccacga gctgcaggag tgggtacaagg gcttctctcaa 360
ggactgcccc accggccacc tgaccgtgga cgagttcaag aagatctacg ccaacttctt 420
ccccctacggc gacgcttcca agttcgccga gcacgtcttc cgcaccttcg acaccaacgg 480
cgacggcaac atcgacttcc gggagtccat cattgcgtg agcgtgacct cgcggggcaa 540
gctggagcag aagctcaagt gggccttcag catgtacgac ctggacggca acggctacat 600
cagccgcagc gagatgctgg agatcgtgca ggccatctac aagatggtgt cgtctgtgat 660
gaagatgccg gaggatgagt ccaccccggg gaagcgcaca gacaagatct tcaggcagat 720
ggacaccaac aatgacggca aactgtcctt ggaagaattc atcagagggt ccaagagcga 780
ccccctccatc gtccgcctgc tgcagtgcga ccccagcagt gccagtcagt tctgagcgag 840
cggccctctgg acagttgcag agaaacacag gcttgcgtg ccgtttaagc tttgcttgca 900
agagtggatg ccccgcaatc gttcctgctc tcccgggccc cgggcctggg gcatgcgttg 960
cacctgcccg gcccggtggc tgcgcctccc tctccacct gaccaacgcg acattcctcc 1020
cctcacgccc ctcacggggt cttccagggc aactcccagg gatgtgggtga catgcagggt 1080
tcaagtgttc ttgggtccag gcacctcccg gctcacgggg agctcagagg tccatgccga 1140
ggagaccagg caggacctcc cgaggctgcg ccccgccggg cccatgcgtt ttgtgatccc 1200
aagtgactct gtgggaaggg tggggacgag gcgtcgggag ggtatacagg gagccccctc 1260
cgtgcacggc tgcccccccg ttcattttct ccaccacagc cgcttgcaag tatagatact 1320
gtgggtccct tttttttaa atataaatta tgtatggtga agtggagtgt attgtgtagg 1380
tcccgtatct aatgcctctg actgcctttg aagcgcagcc ctctgtggcc cgcagcccc 1440
tgagcctggc tgttgtgtgg tatttatgct ctcttgtct gctgtttct aaggaaatgc 1500
atgtgtgccc tgagccgtga tgatccctcc atccgtgtt tgagcacagg ctttgtgtc 1560
tgggtctgtc tccctgttga ttgggtctggc atttcgggt ttaaatgat aaaataaatg 1620
gcattttctg 1630

<210> 132
<211> 1258
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 238586.2

<220>
<221> unsure
<222> 1007
<223> a, t, c, g, or other

<400> 132
gaaaaataac acatactttc aaagttctgt agactctaaa aagaaagaaa acactcaa 60
gagtcacctt tttccacatt cgaggctgag aagctatata aatttctgca gtcactagca 120
gaaaacacca aatcaaccat aggtccaaga acaattgtct ctggacggca tgctatgca 180
ctcacctgct tgtgtgctgt gtgctgctg cctggcagcc tggccctgcc gctgctgca 240
ggaggcggga ggcctgagtg agctacagtg ggaacaggct caggactatc tcaagagatt 300
ttatctctat gactcagaaa caaaaaatgc caacagttta gaagccaaac tcaaggagat 360
gcaaaaattc tttggcctac ctataactgg aatgttaaac tcccgcgtca tagaaataat 420
gcagaagccc agatgtggag tgccagatgt tgcaagaata tcaactattc caaatagccc 480
aaaatggact tccaaagtgg tcacctacag gatcgtatca tatactcgag acttaccgca 540
tattacagtg gatcgattag tgtcaaaggc tttaaacatg tggggcaaaag agatccccct 600


```

gcatttcagg aaagttgtat ggggaactgc tgacatcatg attggccttg cgcgaggagc 660
tcattggggac tcctacccat ttgatggggc aggaaacacg ctggctcatg cctttgcgcc 720
tgggacaggt ctcgaggag atgctcactt cgatgaggat gaacgctgga cggatggtag 780
cagtctaggg attaaacttc tgtatgctgc aactcatgaa cttggccatt ctttgggtat 840
gggacattcc tctgatccta atgcagtgat gtatccaacc tatggaaatg gagatcccca 900
aaattttaaa ctttcccagg atgatattaa aggcatcag aaactatatg gaaagagaag 960
taattcaaga aagaaataga aacttcaggc agaacatcca ttcattnatt cattggattg 1020
tatatcattg ttgcacaatc agaattgata agcactgttc ctccactcca tttagcaatt 1080
atgtcacctc tttttattgc agttggtttt tgaatgtctt tcaactcctt taaggataaa 1140
ctcctttatg gtgtgactgt gtcttattca tctatacttg cagtgggtag atgtcaataa 1200
atgttacata cacaaataaa taaaatgttt attccatggt aaattttaaa aaaaaaaa 1258

```

<210> 133

<211> 2127

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 245532.7

<400> 133

```

agctgagggtg tgagcagctg ccgaagtcag ttcccttggtg agccggagct gggcgcggat 60
tcgccgaggc accgaggcac tcagaggagg cgccatgtca gaaccggctg gggatgtccg 120
tcagaaccca tgcggcagca aggcctgccg ccgcctcttc ggcctcagtg acagcgagca 180
gctgagccgc gactgtgatg cgctaattgc gggctgcac caggaggccc gtgagcgatg 240
gaacttcgag tttgtcacgc agacaccact ggagggtgac ttccgctggg agcgtgtgcg 300
gggccttggc ctgcccaggc tctaccttcc cagggggccc cggcgaggcc gggatgagtt 360
gggaggaggc aggcggcctg gcacctcacc tgctctgctg cagggggacag cagaggaaga 420
ccatgtggac ctgtcactgt cttgtacctt tgtgcctcgc tcagggggagc aggtgaagg 480
gtccccagggt ggacctggag actctcaggg tcgaaaacgg cggcagacca gcatgacaga 540
tttctaccac tccaaacgcc ggctgatctt ctccaaggag aagccctaata ccgccacag 600
gaagcctgca gtccctggaag cgcgaggggc tcaaaggccc gctctacatc tctcgtctta 660
gtctcagttt gtgtgtctta attattatct gtgttttaat taaacacct cctcatgtac 720
ataccctggc gtgacctgac ccccagcct ctggcattag aattatttaa acaaaaaata 780
ggcggttgaa tgagaggttc ctaagagtgc tgggcatttt tattttatga aatactatct 840
aaagcctcct catcccgtgt tctccttttc ctctctcccg gaggttgggt gggccggctt 900
catgccagct acttccctct cccacttgt ccgctgggtg gtaccctctg gaggggtgtg 960
gtccccagggt atcgctgtca caggcgggta tgaaattcac cccctttcct ggacactcag 1020
acctgaatcc ttttctattt gagaagtaaa cagatggcac tttgaagggg cctcaccgag 1080
tgggggcacc atcaaaaact ttggagtcct ctacacctct ctaagggttg gagggtgac 1140
cctgaagtga gcacagccta gggctgagct ggggacctgg taccctcctg gctcttgata 1200
ccccctctg tcttgtaag gcagggggaa ggtgggggtc tggagcagac caccctcct 1260
gcctcctgac cccctctgac ctgcactggg gagcccgctc cagtgttgag ccttttccct 1320
ctttggtctc cctgtacctt ttgaggagcc ccagctaccc ttctctccca gctgggctct 1380
gcaattcccc tctgtgtctg tccctcccc ttgtcctttc ccttcagtag cctctcagct 1440
ccaggtggct ctgaggtgcc tgtcccaccc ccacccccag ctcaatggac tggaggggga 1500
agggacacac aagaagaagg gcacctagt tctacctcag gcagctcaag cagcgaccgc 1560
ccctcctct agctgtgggg gtgagggtcc catgtgtgtg cacaggcccc cttgagtggg 1620
gttatctctg gttaggggt atatgatggg ggagtagatc tttctaggag ggagacactg 1680
gcccctcaaa tcgtccagcg accttctca tccaccccat cctccccag ttcattgcac 1740
tttgattagc agcggaacaa ggagtcagac attttaagat ggtggcagta gaggtatgg 1800
acagggcatg ccacgtgggc tcatatgggg ctgggagtag ttgtctttcc tggcactaac 1860
gttgagcccc tggaggcact gaagtgtcta gtgtacttgg agtattgggg tctgacccca 1920
aacaccttcc agctcctgta acatactggc ctggactgtt ttctctoggc tccccatgtg 1980
tctgtgttcc cgtttctcca cctagactgt aaacctctcg agggcaggga ccacacctg 2040
tactgttctg tgtctttcac agctcctccc acaatgctga atatacagca ggtgtcaat 2100
aatgattct tagtgacttt aaaaaaa 2127

```

<210> 134

<211> 2192

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 200972.2

<400> 134

```

ggggcccccac acagggccgcg ggggctggct cggggcccta cgggtcccggc ggcggttggg 60
ggaggaagcc agggcggtcg cggaggagga gagacggagg agggccgagac cggagcgccg 120
ctcgccgcag acttacttcc cgggctcagc agggaaaggt tcctagaagg tgagcgcgga 180
cggtagtcaa agttgtgaat ccagtgggtga cagtgcggat gaccctctca gtcgcgccct 240
acggagaagg ggacagcctc gtgtgggtgg gatcggcgc ggcttggctg gcctggctgc 300
agccaaagca cttcttgagc agggtttcac ggatgtcact gtgcttgagg cttccagcca 360
catcgaggcg cgtgtgcaga gtgtgaaact tggacacgcc accttgagc tgggagccac 420
ctggatccat ggctcccatg ggaacctat ggcacatcta gcagaagcca acggcctcct 480
ggaagagaca accgatgggg aacgcagcgt gggccgcata gcctctatt ccaagaatgg 540
cgtggcctgc taccttacca accacggcgc caggatcccc aaggacgtgg ttgaggaatt 600
cagcgattta tacaacgagg tctataactt gacccaggag ttcttcgggc acgataaacc 660
agtcaatgct gaaagctaaa atagcgtggg ggtgttcacc cgagaggagg tgcgtaaccg 720
catcaggaaat gaccttgac acccagaggc taccagcgc ctgaagctcg ccatgatcca 780
gcagtacctg aaggtggaga gctgtgagag cagctcacac agcatggacg aggtgtccct 840
gagcgccctc ggggagtggg ccgagatccc cggcgctcac cacatcatcc cctcgggctt 900
catcggggtt gtggagctgc tgggaggagg gcatccctgc ccacgtcatc cagctagggg 960
aacctgtccg ctgcattcac tgggaccagg cccagagggc cctgagattg 1020
agccccgggg tgaggggcgac cacaatcacg acactgggga ggtggccag ggtggagagg 1080
agccccgggg gggcaggtgg gatgaggatg agcagtggtc ggtgggtggg gagtgcgagg 1140
actgtgagct gatccccgag gaccatgtga ttgtgaccgt gtcgctagggt gtgctaaaga 1200
ggcagtacac cagtttcttc cggccaggcc tgcccacaga gaaggtggct gccatccacc 1260
gcctgggcat tggcaccacc gacaagatct ttctggaatt cgaggagccc ttctggggcc 1320
ctgagtcaa cagcctacag tttgtgtggg aggaacgaagc ggagagccac accctcacct 1380
accacctga gctctgttac cgcaagatct gcggttttga tgcctctac ccgctgagc 1440
gctacggcca tgtctgagc ggctggatct cgggggagga ggccctcgtc atggagaagt 1500
gtgatgacga ggcagtggcc gagatctgca cggagatgct gcgtcagttc acagggaacc 1560
ccaacattcc aaaacctcgg cgaatcttgc gctcggcctg gggcagcaac ccttacttcc 1620
gcggctccta ttcatacacg caggtgggct ccagcggggc ggtatgtggag aagctggcca 1680
agccccctgc gtacacggag agctcaaaga cagcgcctat gcaggtgctg ttttcgggtg 1740
aggcaccaca ccgcaagtac tattccacca cccaaggctg tctgctgtac ggccagcgtg 1800
aggctgcccg cctcattgag atgtaccgag acctcttcca gcaggggacc tgagggtgtg 1860
cctcgtgtgt gagaagagcc actaactcgt gacctccagc ctgccccttg ctgccgtgtg 1920
ctcctgcctt cctgatcttc tgtagaaagg atttttatct tctgtagagc tagccgcctt 1980
gactgccttc agactgctt ctgtagcttt tctttttctc caggctgggc cgtgagcagg 2040
tgggcccgtt agttacctct gtgctggatc ccgtgcccc acttgctac cctctgtctt 2100
gccttgttat tgtaagtgc ttcaatactt tgcattttgg gataataaaa aaggctccct 2160
ccccgtccc tcagcttctc tctggttttc tc 2192

```

<210> 135

<211> 3075

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 348061.1

<400> 135

```

tggcgggggg agaaatggca gtaggcattc cgtcccgtt ataagggccc cggaccgccc 60
cggctcgctt cggcttgcct cgacacgcct agggcgccct cggctccgcc ctageccgccc 120
cgtcccagct agagctccag cgcccgtca ggcccactc gaccctctcg ggccctcggt 180
acttgagctg cggcggaata tggcggtccc gatgactccc gcggtctggc ccgaggacta 240
cgaggcgggc ctcaatgccg ccttggttga cgtgccgaa ctggccagac tcttgagat 300
cgaccggtac ttgaagccct acgcctgga cttccagcgc aggtataagc agtttagcca 360
aattttgaag aacattggag aaaatgaagg ttgtattgat aagttttcca gaggctatga 420
atcatttggc gtccacagat gtgctgatgg tggtttatac tgcaaagaat gggccccggg 480
agcagaagga gtttttctta ctggagattt taatgggttg aatccatttt cgtaccata 540
caaaaaactg gattatggaa aatgggagct gtatatccca ccaaagcaga ataaatctgt 600
actcgtgcct catggatcca aattaaagg agttattact agtaaaagcg gagagatctt 660
gtatcgtatt tcacgtggg caaagtatgt ggttcgtgaa ggtgataatg tgaattatga 720
ttggatcacac tgggattcag aacactcata tgagttttaag cattccagac caaagaagcc 780
acggagtcta agaatttatg aatctcatgt gggaatttct tcccatgaag gaaaagtagc 840
ttcttataaa cattttacat gcaatgtact accaagaatc aaaggccttg gatacaactg 900
cattcagttg atggcaatca tggagcatgc ttactatgcc agctttgggt accaaatcac 960
aagcttcttt gcagcttcca gccgttatgg gagctacaag aactggtaga 1020
cacagctcat tccatgggta tcatagtcct ccttagatgtg gtacacagcc atgcttcaaa 1080

```

aaattcagca	gatggattga	atatgtttga	tgggacagat	tcctgttatt	ttcattctgg	1140
acctagaggg	actcatgatc	tttgggatag	cagattgttt	gcctactcca	gctgggaagt	1200
tttaagattc	cttctgtcaa	acataagatg	gtgggttgaa	gaatatcgct	ttgatggatt	1260
tcgttttgat	gggtgttacgt	ccatgtctta	tcatacccat	ggagtgggtc	aagggtttctc	1320
aggtgattac	agtgaatatt	tcggactaca	agtagatgaa	gatgccttga	cttacctcat	1380
gttggcaaat	catttggttc	acacgctgtg	tcocgattct	ataacaatag	ctgaggatgt	1440
atcaggaatg	ccagctctgt	gctctccaat	ttcccaggga	gggggtgggt	ttgactatcg	1500
actagccatg	gcaattccag	ataagtggat	tcagctactt	aaagagtta	aagatgaaga	1560
ctggaacatg	ggcgatatag	tatacacgct	cacaaacagg	cgctaccttg	aaaagtgcatt	1620
tgcttatgca	gagagccatg	atcaggcatt	gggttggggat	aagtcgctgg	cattttgggt	1680
gatggatgcc	gaaatgtata	caaacatgag	tgtcctgact	ccttttactc	cagttattga	1740
tcgtggaata	cagcttcata	aaatgattcg	actcattacg	catgggcttg	gtggagaagg	1800
ctatctcaat	ttcatgggta	atgaatttgg	gcctcctgaa	tgggttagact	tcccaagaaa	1860
aggaaataat	gagagttacc	attatgccag	gcgcgagttt	catttaactg	acgacgacct	1920
tcttcgctac	aagtctctaa	ataattttga	cagggatatg	aatagattgg	aagaaagata	1980
tgggtggctt	gcagctccac	aggcctacgt	gagtgaaaaa	catgaaggca	ataagatcat	2040
tgcttttgaa	agagcaggtc	ttcttttcat	tttcaacttc	catccaagca	agagctacac	2100
tgactaccga	gttggaacag	cattgccagg	gaaattcaaa	attgtgctag	attcagatgc	2160
agcggaatat	ggagggcatc	agagactgga	ccacagcact	gacttttttt	ctgaggcttt	2220
tgaacataat	gggcgtccct	attctctttt	ggtgtacatt	ccaagcagag	tggccctcat	2280
ccttcagaat	gtggatctgc	cgaattgaag	aggcctgatt	tcagctccac	cagatgcaga	2340
tttgtgtttt	gttttcttgt	tatcactgtc	acacagctta	taacatgtat	gcttttccag	2400
atacagttgt	ctagccaagc	catcaagtgt	ctgaaattca	atattgggtt	atgcaaatac	2460
agcaaaactt	tattttaagta	gatgggagaa	tatgtttaaa	atattaggaa	tcctagacca	2520
tattttcaag	tcattcttagc	agctaggatt	ctcaaattgga	agtgttatat	ataatatgtt	2580
aaaaacattt	tgctttctctg	gctaattatt	tgatcctttt	aaattcaaat	ttgaatcatt	2640
tgctatgtat	gttattttct	gttaaatgta	cacagtattt	aagatggata	tttgggtggt	2700
ctatttgttc	tgatatcttt	tgggtctaat	tatgaggtac	caagattgtt	tctttgtttc	2760
tttttttcaa	attgtgttta	gaaatactgt	aataaatatg	cagtagtgat	ataaagaatt	2820
atatccaagg	taataataaaa	gccattacgt	atgaactcat	ccgtgtctca	ttttgtgttt	2880
tattttgtgt	tctcttgtcc	actaagtatc	tgtttaaatg	ccagtatctc	agtctttctg	2940
aagccctgaa	atggtaattg	tagcatttca	gaaaatgtct	ttcatttcaa	tcaataaaaa	3000
gcttttgtac	atgtgaaaaa	aaaaaaatat	aaagatttta	attaagcggg	cgaagcttat	3060
tccttttagt	gagta					3075

<210> 136

<211> 4889

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 233711.7

<400> 136

acttgagtct	cgaaccactg	catctccgac	tctctgccca	gactcttcac	tccgcggcac	60
cctcaaaacc	cagcccaggc	cgggggcgac	aagccagcca	gcgcacctgc	agtcctcgcc	120
cggacgcgcg	gcgccccctc	ggaaccaggc	tctgtccga	gcagccttcg	cccctcaagc	180
cagccacagt	ccccgccagg	ccgggtgggc	gtcaagatga	aggcggcccg	cttcgtgctg	240
cgcagcgctg	gctcgtctca	cggcgccggc	ctgggtgccc	gagaggtgga	gcattttctg	300
cgctacagcc	cgcccccgct	gtccatgaag	cagctactgg	actttgggtc	agaaaatgca	360
tgtgaaagaa	cttcttttgc	atttttgcga	caagaattgc	ctgtgagact	cgccaacatt	420
ctgaaggaaa	ttgatattct	cccgacccaa	ttagtaaata	cctcttcagt	gcaatgggtt	480
aaaagctggg	atatacagag	cctgatggat	ttgggtggaat	tccatgagaa	aagcccagat	540
gaccagaaaag	cattatcaga	ctttgttagat	acactcatca	aagttcgaaa	tagacaccat	600
aatgtagtcc	ctacaatggc	acaaggaatc	atagagtata	aagatgcctg	tacagttgac	660
ccagtcacca	atcaaaatct	tcaatatttc	ttggatcgat	tttacctgaa	ccgtatttct	720
actcggatgc	tgatgaacca	gcacattctt	atatttagtg	actcacagac	aggaaacca	780
agccacattg	gaagcattga	tcctaactgt	gatgtggtag	cagtgggtcca	agatgccttt	840
gagtgttcaa	ggatgctctg	tgatcagtat	tatttatcat	ctccagaatt	aaagcttaca	900
caagtgaatg	gaaaatttcc	agaccaactc	attcacatcg	tgtatgttcc	ttctcacctc	960
catcatatgc	cttttgaact	atttaagaaa	gcaatgcggg	caacagttga	acaccaggaa	1020
aatcagcctt	cccttacacc	aatagagggt	attgttgtct	tgggaaaaga	agaccttacc	1080
attaagattt	cagacagagg	agggtggtgt	cccctgagaa	ttattgaccg	cctcttttagt	1140
tatacatact	ccactgcacc	aacgcctgtg	atggataatt	cccggaatgc	tcctttgggt	1200
ggttttgggt	acggcttgcc	aatttctcgt	ctgtatgcc	agtactttca	aggagatctg	1260
aatctctact	ctttatcagg	atatggaaca	gatgctatca	tctacttaaa	ggctttgtct	1320

tctgagtcta	tagaaaaact	tccagttttt	aacaagtcag	ccttcaaaca	ttatcagatg	1380
agctctgagg	ctgatgactg	gtgtatccca	agcaggggaac	caaagaacct	ggcaaaaagaa	1440
gtggccatgt	gaagaggggac	actcaggaca	cttttacggga	tcaaagtggg	tctacaccag	1500
tgctgcttcc	tgaatglttg	tgtgtgaacc	cttgtttcct	ccaaaacaaa	cgacagcaac	1560
gaaaactcct	taatcagaac	actgatccaa	tgaggaaatgg	agcttggttc	tgtgaccacg	1620
gagaacttag	tgcaagacta	caggagttaa	cagatggcca	gctccttatt	ttttaatgta	1680
gaataactoc	tgagtttata	tcaaactcctg	aagaaataag	cctcagtttt	ccatctgttt	1740
ttgataagaa	taagaaaggg	agtgagtgtg	aagatgggtgg	ttagcagttt	cactaagact	1800
gatatttttag	gcctcttggt	cacatcaaaa	gatattgggtg	tcagaatacc	agcattttcc	1860
tgccatgcaa	aggattaaaa	cttagttttac	actatgtggt	tacaaatata	tgtcaatgta	1920
cattttgaac	atattttatgt	gctatggaag	gaaatgctgg	tgactaaaat	aagggtttact	1980
ctgaaagagg	aggaatttta	ttcaaagcat	tcaaacattt	tattcaagtg	tttcaaaatt	2040
caaagcattg	tattcaaagt	tgcaatcaact	gcatacaact	atgtaaaaac	tcagaaggaa	2100
ggctcctctg	ataaaaaacac	agctccttta	ttatgctgct	tttcttggtc	actttacaca	2160
ctaagtaaac	acttattgtc	aggtgcctag	tcttgagtga	attgttagat	gtgcactgaa	2220
ctcgggatgt	tggggatttgg	agagagagaa	ttgccaaaagt	aacagcaaaa	atatctctta	2280
ctttgctttg	tttataaata	aatttagtaga	ttggaaaaaac	tagtgtagg	gaaagaaatc	2340
acatgttttg	agcctaattc	agtaggaagg	gcttttctct	accctgaaat	gaaggtaatc	2400
caaaggcatc	cattttctag	gcttaaaaga	tatatTTTTg	atatatttaa	ttatatctc	2460
tacactccag	cattaatatg	tctgttttaa	aattactaat	tctcaaatgg	ctcaagaaca	2520
ttagaattta	agtacctttt	agagtaatta	ttttaagcaa	atagcctgga	cgtaagagat	2580
tctcatggcca	cgatgctttc	atttgtcagt	tgttgtgact	gagagataat	gaatgacacc	2640
tgaaatgcat	atgggtatttt	tgggagagtt	aagggtataat	ttgaagggtg	gcagaccagt	2700
tgtgctgatt	actccttagag	aagaagaaat	ggaaaaatga	aagaaggcag	gaaggaaaga	2760
aaggatatag	gaagagaggg	aagcagaagg	caggcatttt	tctattttcc	ccacaaatta	2820
tttcaaaaaa	aactctgtatt	ttctgggata	tgtcattggc	aagaggaaga	actgggtgtt	2880
tgaaagcagt	atggattctt	taaatgcctc	tcactcttac	aagatagtag	gctttgagat	2940
aataaactta	cccggtgtcaa	ttaacattta	aactggcata	tagaaaaaaa	ggaggatttt	3000
tctgcatgtg	aaaataatca	gtatggttta	tatgttgaat	ttgacatttg	tgtgtaattt	3060
catgggtggc	tagtggtgtg	gtgcttctgg	taatggtaat	agaagctcaa	ctattttttt	3120
gtggatttca	gtttttatca	tcagaagctc	tagacagtga	catttcttaa	tgggtggagt	3180
ccagctcatg	catttctgat	tatacaaaac	agtttgcagt	aggttatttg	tcatttcagt	3240
tttttactga	aattttagct	aaacattttt	acatgtaaat	acttgtattt	accaaagatt	3300
taaatcagtt	gattaattaa	ttactcaaaa	tactgtgaac	tatctctaaa	acactagaaa	3360
aaagaaatgt	tagtatctca	attacaccaa	ctgtgcaaat	gaactttgat	aaaatagaaa	3420
taatctacat	tggcctttgt	gaaatctggg	gaagagcttt	aggattctag	tagatggata	3480
ctgaatactc	aggcccactt	aaattattaa	tgtatacatt	gtgtttttgt	ctttatgcta	3540
tgtacagaga	aatgtgataa	ttttttataa	taaatatttt	ttatgatgat	aaaagacaat	3600
ttcttgtaac	ttaaaaataa	agtatatatc	cacattaaca	tctactattt	tctactattt	3660
atagtacaat	ctccaattca	aagctaactc	gtattttgca	acttttgagc	acttttgagc	3720
tagaatcttc	ctccctatcc	aactatactg	ccattgtttt	aacatttaac	aacatttaac	3780
aatacaactt	gggtattctc	tgacaagcaa	tattgatcac	ttctatacac	ttctatacac	3840
aaaaataaaa	cagtttcaaa	gactagaaac	taattttaca	aaagaaaaaa	aaacaggtta	3900
gtaaaacatt	tcttttgaaa	acaatgggtg	aattagtatt	ctgaattgag	ctagagcaca	3960
tttttgcttg	aagactctcc	atattaggca	ctatgcattt	atatagtaca	gaacatttgc	4020
aaaaatgctt	tcaccattta	ttaggactca	caacacctgg	gcgctgggga	atagccggac	4080
tacctcagtt	tacacaggga	gaaccaaggc	acactgtgag	atcttgccag	ggccagagtg	4140
agacctcatt	agcttctgac	ttcttgtagg	aagagccaga	tgtttctttg	tggaggacat	4200
taatttgttt	aatgatagga	gtaaaagtat	gtgagatttg	ttgtgggaaa	attagtgttg	4260
gctccataaa	taaaaaagttc	agagcatgga	taaagtagag	atttactgtt	gaaaagggtc	4320
aatgaggaga	agttaaaacc	agatataagg	ctcttttcag	acagatcact	tttcagaaat	4380
aaaaatagca	aaacgagaat	aggaaaaaaa	tagctataga	gttttctcatt	tctaacccaa	4440
ggggctttga	taaaatcact	ttaaaagaag	gatctctctc	ttaaaacaac	ccttaaacat	4500
cttatttttt	ccccctcata	agaccctgt	gaggtagaga	gcacttactt	acagggatga	4560
agctaagaag	taaagttaag	agtttaaaac	cacatggata	gtgaacaggc	tggagcagat	4620
gttatgtctt	aaagcattgg	cttagaaata	gaaacagaag	gtagagaata	aacagggaat	4680
tttatggatg	gacaagtggg	ataatccagg	gatctagtag	caacaccagc	tacttaacat	4740
ttcttttaaa	aaggacttgg	aatttcaagt	atgtgatgag	gcctaaaatg	acaaacactt	4800
gtctgggtat	tgaaatgtct	agctgaaggg	aatatatgca	atatgttctc	ataagaccat	4860
gtgggaaaaa	gcagaggcat	aaaagagct				4889

<210> 137
 <211> 1637
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <223> Incyte ID No: 256043.19

<400> 137
 gggcggtgcc ggccgaaccc agaccgagg ttttagaagc agagtcaggc gaactgggcc 60
 agaaccgcga cctccgcaac cttgagcggc atccgtggag tgcgcctgcg cagctacgac 120
 cgcagcagga aagcgccgcc ggccaggccc agctgtggcc ggacagggac tggagagag 180
 gacgcggtcg agtaggtgtg caccagccct ggcaacgaga gcgtctaccc cgaactctgc 240
 tggccttgag gtggggaagc cggggagggc agttgaggac cccgcggagg cgcgtgactg 300
 gttgagcggg caggccagcc tccgagccgg gtggacacag gttttaaaac atgaatccta 360
 cactcatcct tgctgccttt tgcttgggaa ttgcctcagc tactctaaca tttgatcaca 420
 gtttagaggc acagtggacc aagtgggaag cgatgcacaa cagattatac ggcatgaatg 480
 aagaaggatg gagggagaca gtgtgggaga agaacatgaa gatgattgaa ctgcacaatc 540
 aggaatacag ggaagggaaa cacagcttca caatggccat gaacgccttt ggagacatga 600
 ccagtgaaga attcaggcag gtgatgaatg gctttcaaaa ccgtaagccc aggaagggga 660
 aagtgttcca ggaacctctg ttttatgagg cccccagatc tgtggattgg agagagaaaag 720
 gctacgtgac tccctgtgaag aatcagggtc agtgtgggtc ttgttgggct tttagtgccta 780
 ctggtgctct tgaaggacag atgttccgga aaactgggag gcttatctca ctgagtgagc 840
 agaactctgt agactgctct gggcctcaag gcaatgaagg ctgcaatggg ggccaatagg 900
 attatgcttt ccagtatgtt caggataatg gaggcctgga ctctgaggaa tcctatccat 960
 atgaggcaac agaagaatcc tgtaagtaca atcccaagta ttctgttgct aatgacaccg 1020
 gctttgtgga catccctaag caggagaagg ccctgatgaa ggcagttgca actgtggggc 1080
 ccatttctgt tgctattgat gcaggtcatt agtccctcct gttctataaa gaaggcattt 1140
 attttgagcc agactgtagc agtgaagaca tggatcatgg tgtgctggtg gttggctacg 1200
 gatttgaaag cacagaatca gataacaata aatattggct ggtgaagaac agctgggggtg 1260
 aagaatgggg catgggtggc tacgtaaaaga tggccaaaga ccggagaaac cattgtggaa 1320
 ttgcctcagc agccagctac cccactgtgt gagctgggtg acggtgatga ggaaggactt 1380
 gactggggat ggcccatgca tgggaggaat tcactctcag tctaccagcc cccgctgtgt 1440
 cggatacaca ctogaatcat tgaagatccg agtgtgattt gaattctgtg atattttcac 1500
 actggtaaat gttacctcta ttttaattac tgctataaat aggtttatat tattgattca 1560
 ctacttgact ttgcattttc gtttttaaaa ggaagtataa atttttacct gtttaataaa 1620
 aatttaattt caaatgc 1637

<210> 138
 <211> 8249
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 445012.6

<220>
 <221> unsure
 <222> 4150-4244, 8100-8103, 8105, 8107, 8109-8110, 8115, 8120, 8127, 8131,
 8137, 8150, 8155, 8157, 8180
 <223> a, t, c, g, or other

<400> 138
 gaagggatga cgaggccctg agcaccgac catgcccacg cctgtgggat gaaagctgat 60
 atgaggaggc ccagggggacc tgaggggagtc ggctccctct gctacctcct gtctcttgag 120
 tatectgtga tcgtgacctg tccattccca ccagtgcagg ggtccatgag ccccccagc 180
 cttagccccg tgggccccac ggagtgagcg gcatgcagca ccccgggccc tgtccagtgt 240
 cctctggcct gctgccctgc acccccagaa ggccctgacg ccctggggca cttctgctct 300
 gcacaggacc acgcgggggg ttgccatggt gacataaagg ggcgcggagg aaggaaggag 360
 cgtgaccagc ctgtggactg cgccccctggc tgggaggaag gactgggggc ccagatcctc 420
 cactccagat gcccacaag ctgtgtcgctt cctaagtctc tgtgaatttg ttggtcagtg 480
 gacgattctc gtgtctcctc cttgtgtggg gccagggcag gccgggccc 540
 cgggtggccaa ggtctcggag gccaggatgc ctgccctggc atgcctccgg aggcctgtgtc 600
 ggcacgtgtc cccgcagget gtccctttcc tgcctgtcat cttctgcctg ttcagcgttt 660
 tcatctcggc ctactaccta tatggctgga agcgaggcct ggagccctcg gcggatgcc 720
 ccgagcctga ctgcggggac ccgcccgcctg tggcccccag tcgcctgctg ccaactcaag 780
 ctgtgcaggc agccaccctc tcccgcacag acccgttggg gctggctctt gtggagagcc 840
 tctactcgca actgggccag gaggtgggtg ccacccctgga gtccagccgc ttcataatcc 900
 gcacagagat tgcgcggggc aagggtgaca tgcccacgct cactgacaag ggccgtggcc 960
 gcttcgcctt cactcctat gagaacatcc tcaagtatgt caacctggac gcctggaacc 1020
 gggagctgct ggacaagtac tgtgtggcct acggcgtggg catcattggc tcttcaagg 1080

```

ccaatgagaa cagcctgctg agtgcgcagc tcaagggctt cccctgttcc ctgcactcaa 1140
acctgggcct gaaggactgc agcatcaacc ccaagtcccc gctgctctac gtgacgcgac 1200
ctagcgaggt ggagaaaggt gtgtcccccg gcgaggactg gacgggttttc cagtcaaadc 1260
actccacctg tgagccagtg ctgctggcca agacgcgctc gtctgagtc atccacacc 1320
tgggcgacaga cgccggcctg catgctgcac tgacgcccac tgtggtccag gacctgggccc 1380
tgacgacagc catccagcgc gtgctgtttg gcaacaacct gaacttcttg ctgcacaagc 1440
ttgtcttcgt ggatgccgtg gccttcctca cggggaagcg cctctccctg ccattggacc 1500
gctacatcct ggtggacatt gatgacatct tcgtgggcaa ggagggcaca cgcatgaagg 1560
tggaggacgt gaaggccctg catggcattc agaacgaact acgcgcacac atcccaact 1620
tcaccttcaa cctgggctac tcagggaaat tcttccacac aggtaccaat gctgaggacg 1680
ctggggatga tctgctgctg tcgtatgtga aggagttctg gtggttcccc cacatgtgga 1740
gccacatgca gccccacctt ttccacaacc agtccgtgtt ggccgagcag atggccttga 1800
acaagaagtt cgctgtcgag catggcattc ccacagacat ggggtatgca gtggcgccc 1860
accactcggg cgtgtacccc gtgcacgtgc agctgtacga gcttgggaag caggtgtgga 1920
gcatccgctg gaccagcagc gaggagtacc cccacctgaa gccagcccg caccgctgtg 1980
gcttcatcca caatggcatc atggttctcc caccgcagac ctgcggcctc ttcacacaca 2040
ccatcttcta cctggcggtc cctgtcaatc ctactgagct cctcatgcat cactgtcca 2100
gagagctctt cctcaccgtg ggctgttaca ccttcaagca cctggtgcgc ttctgtcact 2220
actatgggaa cctccggctg cagacactgc ccctgtgca gttggcgag aagtacttcc 2280
cctggaccaaa cctccggctg gacccgctct ggcaggacc cctgcaggac aaagctcca 2340
agatcttctc cgaggagaag aagacgtgtg accgcttccc aaagctccc atcatcgcc 2400
aagacatctg gtccaaggag gccctctacc tgttctggg catgcacctt gacctagca 2460
cccagaaaac aggcaccact acctttgagg agatccagtt ttttaatgg cacaactatc 2520
gcaactaccc cagctctgag atggagttct tccccatccc ttccaacacc acctccgact 2580
acaaagcatc cgactggtac aactactttg attcagaagt tctcatcaa ccccgaggac cgggcagcag 2640
tctactttga gaaaagccc gtctgacca tctcatcaa acccagtggt cctaaagtac accttccatg 2700
cctcttggc caaagccaag gtccatgacg gcccatgacg cgaagctgcg agcgttggt gcacagaacc 2760
cctggtacca gcaccagcga gacgcaccc cgaagctgcg agcgttggt gcacagaacc 2820
agggtattac cgccggctct acctacatcg aaactgcttc accaaccacca ttgactacca 2880
tggtccctgg ctgttacgccc accacatcg aaactgcttc accaaccacca ttgactacca 2940
agattctggt cttggtggc ccttgggggt caactgcttg aaggaggaaa tggattccc 3000
tgacagaagt ccttgggggt caactgcttg aaggaggaaa tggattccc 3060
caaagaaagg attttgggtg caactgcttg aaggaggaaa tggattccc 3120
gcaaggggcc gaaatatccc ctctccaagc ctctgtataa gatgggccag acacttccc 3180
accgggacca caacatcgag agaggacctc cagaacacca ggtagccgtg gccaccacag 3240
cttggctacg agctgggaca tcccaccaca cgctgagcca gacctgcaga gtgggaagct 3300
ggaccagggc agctgcgcac ttatgagcaa tactctgttg gctgggtctg cggcctaagg 3360
agcaccagc cggatctgca agcacctcgg gtccattcgg tcccagctg ctctgggga ggccgcttcc 3420
gacctccctc gccagcagag gactcttttc tbtccctcac tgtgttccgc cgactgtccc 3480
tggttaggag gagtccacga ctgtctccgc agggcgcccc tcaagtattc gggagacaga 3540
ctctcgtaac ccatactccc ggggagggag gcttgcccg ccccgagtc ccccgagtc 3600
tccctgtctc agccaggctc tccaagggt tccagcctc ttctggttcc ccttgccatc 3660
cctgttttcg agccaggctc tccaagggt tccagcctc ttctggttcc ccttgccatc 3720
tggtggggag ggtggcccc ccttccctcc ccttgccatc ttctggttcc ccttgccatc 3780
acatctcacc ctcccgttct cagggcactg tgggggata ccagtaacat cagacatggg 3840
caaggttccc cgcaggccct ccttcttccc ccttgggata ccagtaacat cagacatggg 3900
caggttccc cgcaggccct ccttcttccc ccttgggata ccagtaacat cagacatggg 3960
tgaggcaggc caggggtctg cagggccagg ctgtggccga gggtctctcag 4020
ctcccagcct cagggccagg ctgtggccga gggtctctcag 4080
gcttagccac ctgtggccga gggtctctcag 4140
gctaaaatan nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnatgtgt 4200
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnatgtgt 4260
attctatatt ttttgggttg gtctgttttt aattcagtc agagatgagg 4320
cagctcagg ggtcaccttg tcttagagct agagatgagg 4380
tctcagtggt cctggggctg agcagacctt aggaaggggc cctcccagc gccgtggctg 4440
ctctgggggt acccagggtg aacagaggtg gtgagatgcg cagggaagac cagctctctc 4500
caggacatcg ggctgcgtga agtccagtg ccttgagggg attttggcca aaggaaacag 4560
ccagggtctg gctaggagag ctggggctcaa aagctgcccc acccactctc cctcacatgg 4620
tgctaggctg ggagctgccc tgagagctgg gatgccacc aaggcccaca gaactgtctc 4680
caggcccttg tagacagtg gatctctgg gctgttctg gttggggctg gctcctacc 4740
caccatattt aacaatgtga agtgactgag gctgggtgc ctctccctgg cccctccaa 4800
ctgcaaaatt ctgttccct ctgaacccca gggtctggaa ggtcctttga cgggtatgaa 4860
tcagaagact ctgacatctt ggggctggaa ggtcctttga cgggtatgaa 4920
aaaggggagg tggcgagctt ccaagtcagg ctgggagcag ggctgagcgt 4980
tgaacccgag gctcccggtt ccaagtcagg ctgggagcag ggctgagcgt 5040
ctgagcccat ccttggggacc ctactctgtg ccaggttctt gtccttctct ccgtcacagc 5100

```

```

atggtcattc caggatatgg ggacaaacca ctccctccca gccaggggtgc ctttgagcct 5160
tctcattccg aggtctgcgt ttgcatccct gtctgtgtct ccctcgaggg gtccttcccc 5220
agcctgtggg ggcctgggtc tgttctgagc tgattccctt ttctccagtt ctctgctggg 5280
atgaagaaag ttggacactc agtgggacca gctgcagggt gtttactgt gtacacagca 5340
gtgtccccat catgcctctc aatggggcct gcaagcctgg gaacttgggc atcggtgggc 5400
cagcaggatg agcagcaaag ggtctgagga caggggtggca tgtctgcttg tgtgtcatg 5460
aagacatgcc cagcccatgg agccaggggc ttacagagag gggcagtgac ttccagagtc 5520
ccatccgtca gtgaggggac tgggctgcgg gatgggtgag gatcttacag ctcccaggtt 5580
cggaaatcta ccctctaggc ctggaggcct ctctgcgaga gcatggaagg caggagaggt 5640
gggctggcct agggcaggag ctccacttct ctctgcctct ggctatggga aggagcagge 5700
ggttggaaat cctgtgacag cagagatctt ctggattttt gcctggacc cttctgcaagc 5760
ctggagactg gacctgccac atgttccaag tctgtctgcc taggtcactg ctgccacttc 5820
tcctccactc aacagacctt tottgaagac cctctaggtc cagacactgc cgggacttgc 5880
aggtatgggg ggtagaagga gaggcagata agctgcctgg ggggctgtta gctaattggg 5940
acaaggacac ccctcccgga gaagagaagc cacagatgag tgggccagcg aggccagctc 6000
tcaatgtcca ctaattcact ctaagcattt ggccaaaaaa aggagagaga aataactgaa 6060
attgttcagg tggctattct gtctattctg ttgtccctc catgagcctt tgccccaggg 6120
tgggtgcagg tgcgagtgtc acctgcagct cctcagtcga ttccagagttc cagagccttc 6180
tgtgtgtgag catcctgctg cttggaggat gagtctgaag tttaaaaatg ggccttttct 6240
gagccccctt gatgagcagt cagtgtctct gggcccagct aaggaaagcca tctgttccca 6300
gcagaggaga gctgctgcgc tgacctgcag aggttgggtg tcccagcaca gagctgtgcc 6360
catgggcttg ttagtgggaa aagcaaatac aacaatgttt taccaaacat ttaattatga 6420
atgccactc cccagcatct agatctaaaa ttatatacat tttgccacat tctttttctc 6480
tctctgtgta tgtatatgtt ttctctgtcc taatttaaaa gtacattgca aacatcatga 6540
aacttgatcc ctgaaagctt cagcctgcac ctccaaagag ttagggcatt gtcctacaca 6600
ttggcccagt atcacagca agacagaag tcatttccca gcgatgtctg ctatctaate 6660
tgtattcaaa tcccccaat tgtctccag gtaacttatg tgtctgggtt tggaatcagc 6720
atccagtcac ggtgcacaca ttgcattttc taactatgtt tttaaaacct ctttgaatgc 6780
tgaaaggtct tccctcagct cactttgagt ttttaaatga cattgttttt gagggcctag 6840
gcctgtgtgc tttttgaagc ccacattctt gaatttgtca gattgtttgc tcatggtgtc 6900
gcataaacac ttcttctatc cctgtactt tcaaggataa tttaggctac atgagatttt 6960
gccttttgtg ctgacttgac agcttcaact ctgctaaga tgcgcctcca ctgtcacctg 7020
taccaagtgc caaaacagca gagggggccag ttagagcaag agctctgggg gggccggaaa 7080
gtctccctgg agaaggccgt aatatctggg ccttgggaag aaggacacag ggctctggaa 7140
ggaggaggct gcagcctga aggtctgggc ttcgacctg gggatgggac acagggcacc 7200
aaacacatca tatgtctctc tctttctatt ttgggggtcc aggggttttc gttgcagcag ggaagacct 7260
acctgtggtc tgtgtgcaact ggagcagagc caggctctca gttgcagcag gcaagacct 7320
acatggggaa ctgcctcccg caagctgtgg tgtgagaaga gccctggctg gcagcaggag 7380
ctgtgaagtt tcatccagc cgggtgcatt tagtagctgc ctgaccatct tctccagg 7440
ccctcagttt ctcatctgt agaattagca gataggggac acagcaggga ttttcacaca 7500
tcaaaggagg cagcctctgc tctagttgat gtgaggatga gggggcggcc tagaccctct 7560
gctgccagg ccgttgaggc aacactgggt tcttggtctg acagctgtgg gctggctgcc 7620
cttgccagct cagacggctg gcgagttttc agcttcccta agggactggc atagggtttt 7680
gtgggggtcaa tgccaggaa ctgggggaaa ctggatgcgt tttatoccta gaagttcatc 7740
cctcctgtct ttaactgttc cggccctgga ggagaatgag ggaggagagg gttttctatg 7800
actgtgttag cttttattat tagcaagagg gctccttttg taatttgtgc atgaaattca 7860
tgtcatttcc tgggagagga gagggccgac tggagagggt ggggggcaca ctggggaagc 7920
aggcagaggt ttccttccct tgtagggggg tggggagagt ggggagagg ggtgctatcc 7980
agttcgctg atgagggctc tcgaaccagc cgttttgggt tgtgttaaag gtgagacctt 8040
cctccattaa tgtacaatct cgaactaact gctaataaag tgggttctg tttgtaaaan 8100
nnnanancnn aacanggaan tgccaangcc nctatanac cctactacgn ctaancnggc 8160
tcaattcctg cctgaatagn actgaagagc agtcaactga ggcactgcta gaacagtcac 8220
tggggcaata ttttcaccag tgtcctctg

```

<210> 139
<211> 1248
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: g463906

<400> 139
caagatatcg aattccaaat ttgagggcct cccggctctg ggcgggagg gagagctcag 60
gccgccatgc gcgacaggac ccacgagctg agacaggggg atgacagctc ggacgaagag 120
gacaaggagc ggggtcgcgt ggtggtgcac ccgggcacgg cacggctggg gagcccgagc 180

gaggagtctt	tcacaaaggt	ccggacaatt	cgtcagacta	ttgtcaaaact	ggggaataaaa	240
gtccaggagt	tggagaaaca	gcagggtcacc	atcctggcca	cgcccttcc	cgaggagagc	300
atgaagcagg	agctgcagaa	cctgcgcgat	gagatcaaac	agctggggag	ggagatccgc	360
ctgcagctga	aggccataga	gccccagaag	gaggaagctg	atgagaacta	taactccgtc	420
aacacaagaa	tgagaaaaac	ccagcatggg	gtcctgtccc	agcaattcgt	ggagctcatc	480
aacaagtgc	attcaatgca	gtccgaatac	cgggagaaga	acgtggagcg	gattcggagg	540
cagctgaaga	tcaccaatgc	tggcatgggt	tctgatgagg	agttggatca	gatgctggac	600
agtgggcaaa	gcgagggtgt	tgtgtccaat	atccttaagg	acacgcaggt	gactcgacag	660
gccttaaatg	agatctcggc	ccggcacagt	gagatccagc	agcttgaacg	cagtattcgt	720
gagctgcacg	acataatcgc	ttttctggct	accgaagtgg	agatgcaggg	ggagatgac	780
aatcggattg	agaagaacat	cctgagctca	gcggactacg	tggaaagtgg	gcaggagcac	840
gtcaagacgg	ccctggagaa	ccagaagaag	gtgaggaaga	agaaagtctt	gattgccatc	900
tgtgtgtcca	tcaccgtcgt	cctcctagca	gtcatcattg	gcgtcacagt	ggttggataa	960
tgtcgcacat	tgttggcact	aggagcacca	ggaaccagcg	gcctggcctt	ctctcccagc	1020
agcctggggg	gcaggcagag	cctccagtcg	gaccccttcc	tcacacactg	gccccatagc	1080
agaagggcag	acagttcttc	tgggggtggc	agctgctcat	tcatgatggc	ctcctccttc	1140
aggcctcaat	gcctggggga	ggcctgcact	gtcctgattg	gccgggacac	acggttttgt	1200
aaaaaatata	aaaacaaaaa	aagagcatag	aaaaaaaaaa	aaccgagt		1248

<210> 140

<211> 3737

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 475621.1

<400> 140

ctcccagagct	gcgctaggcg	ggcgccacgg	ctgcccggcg	aaggaaaccg	aaaccgagtc	60
cgggcccgctc	cctcccgccg	cccatccgcc	cggtgcaccc	ggggtcgcgc	tcgccaggcc	120
gcggagccca	gagctgcgcg	cacgaaccgt	gcgcccggag	ggcgtgggag	tggcgccgaa	180
gggtcccgag	tcttcgacgc	ctctgcggcg	gtcctccct	ccttcagtt	ggatccctgg	240
cgggtgcggc	ccggcccggg	cccgtagcgc	gcgcacagaa	tgggcccgat	ctgcttctac	300
acggcgggga	cgttgtccct	gtcctgctgc	gtgaccagcg	tcacgtcgtc	ggtggcccgg	360
gtcttcacaga	aggctgtaga	ccagagtatc	gagaagaaaa	ttgtgttaag	gaatggatct	420
gaggcatttg	actcctggga	gaagccccct	ctgcctgtgt	atactcagtt	ctatttcttc	480
aatgtcacca	atccagagga	gatcctcaga	ggggagaccc	ctcgggtgga	agaagtgggg	540
ccatacacct	acagggaact	cagaaacaaa	gcaaatattc	aatttgagga	taatggaaca	600
acaatatctg	ctgttagcaa	caaggcctat	gtttttgaac	gagaccaatc	tggtggagac	660
cctaaaattg	acttaattag	aacattaaat	attcctgtat	tgactgtcat	agagtggctc	720
caggtgcact	tcctcaggga	gatcatcgag	gccatgttga	aagcctatca	gcagaagctc	780
tttgtgactc	acacagttga	cgaattgtct	tggggctaca	aagatgaaat	cttgtccctt	840
atctctccca	tcaggcccgga	tatctctccc	tattttgggc	ctattctatg	agaaaaatgg	900
gactaatgat	ggagactatg	tttttctaac	tggagaagac	agttacctta	actttacaaa	960
aattgtggaa	tggaaatggga	aaacgtcact	tgactggtgg	ataacagaca	agtgcaatat	1020
gattaatgga	acagatggag	attcttttca	cccactaata	accaaagatg	aggctcctta	1080
tgtcttccca	tctgactttt	gcaggtcagt	gtataattact	ttcagtgact	atgagagtgt	1140
acagggactg	cctgcctttc	ggtataaagt	tcctgcagaa	atattagcca	atacgtcaga	1200
caatgcgggc	ttctgtatac	ctgagggaaa	ctgcctgggc	tcaggagttc	tgaatgtcag	1260
catctgcaag	aatgggtgcac	ccatcattat	gtctttccca	cacttttacc	aagcagatga	1320
gaggtttgtt	tctgccatag	aaggcatgca	cccaaactag	gaagaccatg	agacatttgt	1380
ggacattaat	ccttttagctg	gaataatcct	aaaagcagcc	aagaggttcc	aatcaacat	1440
ttatgtcaaa	aaattagatg	actttgttga	aacgggagac	attagaacca	tggttttccc	1500
agtgatgtac	ctcaatgaga	gtgttcacat	tgataaagag	acggcgagtc	gactgaagtc	1560
tatgattaac	actactttga	tcatacccaa	cataccctac	atcatcatgg	cgctgggtgt	1620
gttctttgggt	ttgggttttta	cctggcttgc	atgcaaaagga	cagggatoca	tggatgaggg	1680
aacagcggat	gaaagagcac	ccctcattcg	aacctaaaca	ttgcctttgc	ttgggtgaaga	1740
aactgtgtga	gctgtcctga	cctggacgat	gacgtgggga	aacctccac	ctccttgacg	1800
gcttgttgcc	tggtgaaaga	aggaaaaaga	cacggcgctg	gcaagtgata	ggaacattct	1860
ggccagaggt	taaagagcag	gctgacatgg	ctggccatta	agctttataa	aatcatgtgg	1920
gctctgaaat	tggtctttta	tggtgtctagc	aagtatttaa	taaaccttgg	tatagttaatt	1980
ttgtgttgtt	tgggtgctgg	tagctccaga	attttgtgac	cactattgtg	ggtaaaaatgt	2040
ctctgcatca	cttggttaatg	ctactggtct	aacttcattc	agtatgcttc	attcaccgaa	2100
ctttgtgctc	aaaatgcgta	tataccattt	tatgttgtat	tcctccattt	cacttgcaaa	2160
acagaagtaa	ataagagttc	gggaccagcg	gtaaaatggt	agcttccatc	aatatatatt	2220
tcaaatgcat	ctgattttcta	aaacatatta	catttttatgc	tgatcttcag	ttcataattc	2280

ttccaggaaa	actcagtcctt	ccaactgcaa	taaaatactg	ggtagaatca	aatgggaaag	2340
gggttgggtg	gggcaatacc	catgagttga	tagtgataag	ctcctaagga	tttttaactt	2400
gtacttttgt	gaacgaagag	aatgcataaa	taatgttggt	gaggataaaag	tacagatatt	2460
tcatgtagaa	ttaattgcta	gttatgatgc	ttgtggatag	tttaactgttt	tttttttagt	2520
caaaatgata	atgctacgaa	aagatgcttc	tgagagaatg	taatgagtaa	ctgatttttc	2580
ttcctgagtc	gcccttgcca	aatatgtttac	tgtattaatt	aatctaatat	tgagtgatta	2640
tttgtaaaat	tatgaatatg	ggaaatccat	ctatctacag	cctaagttac	acataagttt	2700
cagaaagtct	gattagacta	aagagatatt	tcttctggga	cagccttctt	cttggtaatt	2760
ttgaagtctt	ttttacaagt	tccttcctca	gtttcagttc	tttccagtgt	ttttagcttc	2820
actgtcactc	actgaataga	gaaacgtgtg	ccctatactt	cctgtgacaa	tcatttttgt	2880
gacagaatga	tggatgttta	aaatattgca	caaagtactt	taaagaaagg	tctgttagga	2940
ccagaagcag	agacaccact	tttcaaagga	cttcttggtt	tcagcataac	ctaagacagg	3000
gaattgggag	caatcatatg	tcacagtgtt	cagaattcaa	gcatatttaa	gggcattttc	3060
tttgattctc	aaagttcagc	attcattttg	aattgagaag	cctatacatt	tagctgacaa	3120
agtgcttata	gaatttctta	acaactgaac	cattcaaaag	gatttttttt	gtttaaaact	3180
ggatttcaat	gtaagcaaat	gaagaaaaaa	atatagattt	catttccata	gcttcttata	3240
cctgtattga	ggtaataaat	tggtttactg	acaatttttc	ctttttctac	actaaaacaa	3300
tgcatgatat	attgtcccctc	ttgaagaggc	aattcattaa	actctcaaat	tttctataga	3360
atcaagatag	aacctttaga	tactccaact	caccaaagt	taaaaaaact	aacaaaaata	3420
tttggtcttc	aataatgcta	aatatctaca	tttttagaat	ttatcaacat	ttaactagat	3480
aattgggcac	gtcttaatta	tgcatgtact	tatccatact	aataaaaattg	acaatgctag	3540
tgcatactta	ttggtttagt	cctattatca	ggatataatc	atctgtgagg	aggatatttt	3600
aaatactgta	aatgataaca	gttaatgata	tacacattta	gactgagttg	cacactggca	3660
gggagaccaa	aaacattact	tccatacttg	tgtcatgatt	cttttttttt	tgagagagtc	3720
tcactctgtc	gccaggc					3737

<210> 141
 <211> 4193
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 216063.17

<220>
 <221> unsure
 <222> 1626-1649
 <223> a, t, c, g, or other

<400> 141						
tgcgcgcgcg	cggeccctcc	tgtcctctcg	caccagcccc	caaaccaact	tgtccccatc	60
aactccatct	ttctagctcc	caccttcccc	ggtgcagaca	cccggcgaag	ccaccoggtt	120
ttcccagcgg	catttccgat	gacagcttcc	gggctacgtg	tcctgtgctg	tcggagacgc	180
acaggaagca	aagtttgtga	gaagccttgg	gggcgacttt	gccttgggca	cccgcatttg	240
tgcgtctcgc	aggtgcctcg	gtgtgcgcgg	agctagtttc	ccagtttccc	gggcccctcc	300
cttctccgag	ccccctctagc	gatttgttta	ggaaaagtga	tgacatgaac	tagtagtgga	360
gaatcgcagc	gccgtccccc	gccctgggga	gggaggggag	ccccggagag	cctgcccgtg	420
ggagctggaa	gcaggctccc	ggctgagcgc	cccagcccga	aaggcagggg	ctgggtgcgg	480
gaagagggct	cggagctgcc	ttcctgtctg	cttggggccg	cccagatgag	ggaacagccc	540
gatttgctcg	gttctgattc	tccaggctgt	cggtggttgt	gaatgcaaac	gccagcacat	600
aatggaaaca	ggacctgaag	acccttccag	catgccagag	gaaagtcccc	ccaggcggac	660
cccgcagagc	attccctacc	aggacctccc	tcacctggtc	aatgcagacg	gacagtacct	720
cttctgcagg	tactgggaaa	cccacaggca	cacccaaggc	cctcatcttt	gtgtcccatg	780
gagccggaga	gcacagtggc	cgctatgaag	agctggctcg	gatgctgatg	gggctggacc	840
tgctggtggt	cgcccacgac	catggttgcc	acggacagag	cgaaggggag	aggatggtag	900
tgtctgactt	ccacgttttc	gtcagggatg	tggtgcagca	tgtggattcc	atgcagaaag	960
actaccctgg	gcttctctgc	ttccttcttg	gccactccat	gggaggcgcc	atcgccatcc	1020
tcacggccgc	agagaggccg	ggccacttcc	ccggcatggt	actcatttcc	cctctggttc	1080
ttgccaatcc	tgaatctgca	acaactttca	aggtccttgc	tcgcaaaagt	ctcaaccttg	1140
tgtctgcaaa	cttgtccctc	gggcccacgc	actccagcgt	gctctctcgg	aataagacag	1200
aggtcgacat	ttataactca	gaccccctga	tctgccgggc	agggctgaag	gtgtgcttcc	1260
gcatccaact	gctgaatgcc	gtctcacggg	tgagcgcgcg	cctccccaa	ctgactgtgc	1320
ccttctctgt	gctccagggc	tctgccgatc	gcctatgtga	cagcaaaggg	gcctacctgc	1380
tcatggaggt	agccaagagc	caggacaaga	ctctcaagat	ttatgaaggt	gcctaccattg	1440
ttctccacaa	ggagcttccc	gaagtcacca	actccgtctt	ccatgaaata	aacatgtggg	1500
tctctcaaa	gacagccacg	gcaggaaactg	cgtcccccac	ctgaatgcac	tggccgggtgc	1560

ccggctcatg	gtctggggga	tgcaggcagg	ggaagggcag	agatggcttc	tcagatatgg	1620
cttgcnnnnn	nnnnnnnnnn	nnnnnnnnnt	tggagaaatc	cttaacacaa	ttttctaaaa	1680
aataacagac	atttttgtta	tacattagac	tatcagacac	tggacctacc	ttaatggtta	1740
gacactttat	gcaaaaaaag	agaaagggtcc	caggtgattt	tccacaaaga	atgtgctaaa	1800
atgtccactg	aaaacaaagc	caagcctctg	ccctgcctct	cccagctccc	acaagggttc	1860
caggaattcc	tgggtgtccc	aggacaccag	actgcaataa	ctggaggcgc	ctccttctctg	1920
cccacccttc	gtcacgccc	cagcgccctc	tctgaccagc	ctccgcttgg	tggccttccct	1980
ctggccgtgt	gatgaggtgg	ttgctgtctc	catagggggc	agctccccag	ggcagactca	2040
cgtgcccctc	tgaggctcag	aaaatgccca	gcccttcctc	aaaatgagca	gccacccatg	2100
actttgtggg	ctccttggtta	gcctgagacc	aggttttgca	gaggggcggg	gggtgaggct	2160
tagccagaaa	ggagaactga	gcaggaaacc	aaggctcttc	tctgtcccct	gcccttcccc	2220
tcctgccagg	gggaggctca	ggttggtccc	cgagtgcgcg	ctgtactcac	aaaggctgcc	2280
tttctcttag	agtcactaat	tttacctgat	gctatgagag	aatcataattg	aagatgaaat	2340
gtctaataata	taatgtatat	tttaaagcag	agactatttt	ggtggatagg	tgggagggag	2400
caaggggagt	ttgagggaat	cagagcttga	tgctactgta	cagaactgga	caggttgggc	2460
cggcagtggg	ggggccagag	ggctctgtgc	tctaggagct	aagccagcag	cccccgagag	2520
gggactctag	agtccttctc	ctatgggcaa	ggcccagtgc	tcttctctgc	caccagggac	2580
catggagcag	tggcacccta	tggggctatg	atccctaggc	ctgggcctgg	gcctgcctgt	2640
ggcccagagc	taccctggga	gtgtcagtgc	tagcagcaca	gctacctctg	gtggcaggag	2700
aagagaggcc	cagcacagca	gcaggccagg	ccttcctgtc	caggtctgca	tggagcactc	2760
ggtgaccagc	agcagggact	ggaggcaccc	ccagccctgc	cccaggccac	agcaggacag	2820
gccgggacag	gcctcaccca	aggccaaggc	tggcatcagc	caatcattca	gagctgaggc	2880
cctggggcta	gcctgccctt	ctcaggtgcc	aataccaccc	cagccctgcc	cttggcctca	2940
ctttttccca	gcaataagtg	gggttcacca	cccgctctgg	gaatactttc	cccttctaaa	3000
tgggacttgc	tgttacctca	ggaggtccct	tagtgcaaat	atgaccctgg	tcagggtctt	3060
gccaccgttg	aagccctgca	gaagggtgcaa	tgtagggggtt	ctggggccac	agaggagagg	3120
ccacttccca	ccaggacccc	caacatgaag	tctaggccctc	aggggctccc	gcccttcttc	3180
ctccagcagc	gggaactgcc	actgctctcc	caggccctgt	tctggaggct	aaccttggtt	3240
cctggagagt	gtgcccctcc	accctccctc	cagcagccct	gatcacacca	tgagagccag	3300
gaacgggtca	ccctgctgaa	gatcactctg	tgccttgggg	gaggagccaa	gcctcacc	3360
cacaaggggc	aggtgggggc	ttggttgctg	acccggccca	agtccccaca	gagcaccttc	3420
tgtagctcca	gcttgtctcc	ctggcttctc	tttgaaggag	aaaaatgtaa	aatatgcact	3480
gagaaagcca	gccccgcctg	cttagtcagc	ccgggcagca	gggcagccat	gggaactcag	3540
gaaaagcagg	aaccctttcc	aaaagcccag	agatgccctg	ggctcagatc	tgtaatcttc	3600
ccaggagctg	tgatagagca	ggccacacaa	agtccttacg	cctccctgct	gcctccccc	3660
gatgcatgtg	atggcatcac	cattccccaa	attgaatatc	agcatggggc	ctgaccaggg	3720
actctttaga	tgcatgaatt	tatttatatg	aaggctctca	cagagacaca	cacagcactt	3780
cagtagcatt	tgcatctctg	gttaaagaat	caccaatatt	taaaataaaa	actttctctga	3840
aattgggact	gtcatgttat	ccaagcacca	ccgtcaacac	agcccagtc	atacagcttc	3900
cctccacttc	caggtgggtgc	tgggctcacc	aagggagcac	tgggtgggtgc	tctgaaaacc	3960
cacaggatcc	cacctccagg	cccacctggg	tcccatctca	ctctcttctt	ctttcaccaa	4020
ttgctaacat	agaccttggt	gggatcacga	tggctcacia	gccagctggt	gggttgctat	4080
gtcactgtgg	tcactgcaca	tctgcgtgtg	atactgtctg	cggggcacat	atgtatccat	4140
ttagagctaa	aggaatcagt	gtacactaca	gctaattccct	aataaatccc	gat	4193

<210> 142

<211> 750

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1099498.9

<400> 142

gctaaggga	gtgcccggga	ccccactga	ccccaacgt	cacgggacag	gggcagagga	60
gaaaaacgtg	ggtggacaga	gggaggcagg	cggtcagggg	aaggctcagg	aggagggaga	120
tcaacatcaa	cctgcccgcg	cccctcccca	gcctgataaa	ggtcctgcgg	gcaggacagg	180
acctcccaac	caagccctcc	agcaaggatt	cagagtgcgc	ctccggcctc	gccatgaggc	240
tcttctgtc	gtccccggtc	ctgggtgggtg	ttctgtcgat	cgtcttggaa	ggcccagccc	300
cagcccaggg	gacccagac	gtctccagt	ccttgataaa	gctgaaggag	tttggaaaca	360
caactggagga	caaggctcgg	gaactcatca	gccgcaccaa	acagagtga	ctttctgcca	420
agatgcggga	gtgggttttca	gagacatttc	agaaagtga	ggagaaactc	aagattgact	480
catgaggacc	tgaaggggtga	catcccagga	ggggcctctg	aaatttccca	caccccagcg	540
cctgtgtctga	ggactccctc	catgtggccc	caggtgccac	caataaaaa	cctacagaaa	600
aaaaaaaagg	aaagtaaggg	gagggggaag	gtgagagggc	tgcacaaaa	cccaatggag	660
ggaggacggg	agaaaaaaa	aaaagggggc	gcccccgaa	ttattggccc	cttggacccg	720

gggattttatt ccggggcgagg tacctggggg

750

<210> 143

<211> 1072

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1099076.1

<400> 143

aaagcagccg	ccggcgccgg	gtgcctcaca	gcacgctgcc	acgccgacgc	agaccctct	60
ctgcacgcca	gcccgcggcg	accaccatg	ggccacagtt	cagcagctgg	aaggaagatg	120
gcgcctgggtg	gacagcaaag	gctttgatga	atacatgaag	gagctaggag	tgggaatagc	180
tttgcgaaaa	atgggcgcaa	tggccaagcc	agattgtatc	atcacttggt	atggtaaaaa	240
cctcaccata	aaaactgaga	gcactttgaa	aacaacacag	ttttcttgta	ccctggggaga	300
gaagtgtgaa	gaaaccacag	ctgatggcag	aaaaactcag	actgtctgca	actttacaga	360
tgggtgcattg	gttcagcatc	aggagtggga	tgggaaggaa	agcacaataa	caagaaaatt	420
gaaagatggg	aaattagtgg	tggagtgtgt	catgaacaat	gtcacctgta	ctcgatctta	480
tgaaaaagta	gaataaaaaa	tccatcatca	ctttggacag	gagtttaatta	agagaatgac	540
caagctcagt	tcaatgagca	aatctccata	ctgtttcttt	cttttttttt	tcattactgt	600
gttcaattat	ctttatcata	aacatttttac	atgcagctat	ttcaaagtgt	gttggattaa	660
ttaggatcat	ccctttgggt	aataaataaa	tgtgtttgtg	ctaataatac	ttgtatgcat	720
tctttaaac	ttacaggaaa	ttagtgatga	gttttaataa	ttattaattg	agtaaaaggt	780
ggggcagtc	tgagggttac	tatatggaga	tgacactcta	gcaatttata	tagatagcta	840
ctcttacagg	aaatactgta	ccaattatct	aagcttgccc	tatactatct	gaactttgta	900
tgaattcagg	aatcttgaat	ttctggcaga	gaccattctc	aataaaaagg	gactacaaca	960
taaactttat	tattcaaat	agagcaaagg	tttaattaac	cagcattgac	taaaatactt	1020
tttgtgtgta	tttatataca	aatataagta	atactatgta	tggataaacc	ag	1072

<210> 144

<211> 862

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 902119.3

<400> 144

cccggagccg	cgggcgggaga	ggaacgcgca	gccagccttg	ggaagcccag	gcccggcagc	60
catggcggtg	gaaggaggaa	tgaatgtgt	gaagtctctg	ctctacgtcc	tcctgctggc	120
cttttgcgcc	tgtgcagtgg	gactgattgc	cgtgggtgtc	ggggcacagc	ttgtcctgag	180
tcagaccata	atccaggggg	ctacccctgg	ctctctgttg	ccagtggcca	tcacgcagct	240
gggtgtcttc	ctcttcctgg	tggcttttgt	gggctgctgc	ggggcctgca	aggagaacta	300
ttgtcttatg	atcacgtttg	ccatctttct	gtctcttacc	atgttggtgg	aggtggccgc	360
agccattgct	ggctatgtgt	ttagagataa	ggtgatgtca	gagtttaata	acaacttccg	420
gcagcagatg	gagaattacc	cgaaaaacaa	ccacactgct	tcgatcctgg	acaggatgca	480
ggcagatttt	aagtgtctgt	gggctgctaa	ctacacagat	tgggagaaaa	tcccttccat	540
gtcgaagaac	cgagtccccg	actcctgctg	cattaatgtt	actgtgggct	gtgggattaa	600
tttcaacgag	aaggcgatcc	ataaggaggg	ctgtgtggag	aagattgggg	gctggctgag	660
gaaaaatgtg	ctggtggtag	ctgcagcagc	ccttgggaat	gcttttgtcg	aggttttggg	720
aattgtcttt	gcctgtctgc	tcgtgaagag	tatcagaagt	ggctacgagg	tgatgtaggg	780
gtctggtctc	ctcagcctcc	tcactctggg	gagtgggaata	gtatcctcca	ggtttttcaa	840
ttaaaccgat	tatttttttc	ag				862

<210> 145

<211> 4340

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: g2982500

<400> 145

ccccacgcca	ccccaaagcat	cccaggactc	ttctgaaaca	gggcagtgac	ccgggaggaa	60
gtcaccaggt	gcagaggacc	gtgcctgtg	gggacctgcc	tgcaggctgc	tgacagactc	120
cgggctacca	gatcgccgt	ccagctggaa	tcaaccgatg	gaggctccgc	tgcaaactgg	180
aatgggtgctt	ggcggtatga	tccggggccg	agtggcggtg	gtggtcacgg	ccgtgctcat	240
cctcctggtg	gtgcggaggc	tgcgagtgc	aaaaacccca	gccccggatg	gcccccggtat	300
tccgttcccg	aagagggaca	aagtgtctct	ctatggccgg	aagattatgc	ggaagggtgc	360
acaatccacc	tcctccctcg	tggatacctc	tgtctccgcc	acctcccgcc	cacgcatgag	420
gaagaaactg	aagatgtctc	acattgccaa	gaagatcctg	cgcattccaga	aagagacgcc	480
cacgctgcag	cgggaaggagc	ccccgccgc	agtgtctagaa	gctgacctga	ccgaggcgga	540
cctggctaac	tcccatctgc	cctctgaagt	gctttatatg	ctcaagaacg	tccgggtgct	600
gggccacttc	gagaagccac	tcttccctgga	gctctgcgc	cacatggtct	tccagcggtc	660
gggcccagggt	gactacgtct	tccggccggg	ccagccagat	gccagcatct	acgtgggtgca	720
ggacgggctg	ctggagctct	gtctgccagg	gcttgacggg	aaggagtgtg	tggtgaagga	780
agtggttcct	ggggacagcg	tcaacagcct	tctcagcatc	ctggatgtca	tcaccggtca	840
ccagcatccc	cagcggaccg	tgtctgcccc	ggcggcccg	gactccacgg	tgctgcgcct	900
gccggtggaa	gcattctccg	cggctcttcac	caagtaccgc	gagagcttgg	tgccgggtcgt	960
gcagctcatc	atggtgcggc	tgcagcgagt	caccttccct	gcactgcaca	actacctggg	1020
tctgaccaat	gagctcttca	gccacgagat	ccagccctcg	cgtctgttcc	ccagccccgg	1080
cctcccaact	cgcaccagcc	ctgtgcgggg	ctccaagaga	atggtcagca	cctcagctac	1140
agacgagccc	agggagaccc	cagggcgggc	acccgatccc	accggggccc	cgtgctctgg	1200
acctacaggg	gacctgtga	agccccacatc	cctggaaacc	ccctcgcccc	ctctgcttag	1260
ccgctgcgtc	tccatgccag	gggacatctc	aggcttgacg	ggtggccccc	gctccgactt	1320
cgacatggcc	tatgagcgtg	gccggatctc	cgtgtccctg	caggaaagagg	cctccggggg	1380
gtccctggca	gcccccgctc	ggacccccac	tcaggagcct	cgtgagcagc	cggcaggcgc	1440
ctgtgaatac	agctactgtg	aggatgagtc	ggccactggt	ggctgccctt	tcgggccccta	1500
ccaggccgcg	cagacagca	gcattcttca	ggcagcaaa	caggagctgg	ccaagctgat	1560
gcggattgag	gacccctccc	tcttgaacag	cagagtcttg	ctgcaccacg	ccaaagctgg	1620
caccatcatt	gcccggcagg	gagaccagga	cgtgagcctg	cacttctgtg	tctggggctg	1680
cctgcacgtg	taccagcgca	tgatcgacaa	ggcggaggac	gtgtgcctgt	tcgtagcgca	1740
gccgggggaa	ctgggtgggg	agctggcggt	gctcactggc	gaacctctca	tcttcacact	1800
gcgagcccaa	cgcgactgca	ccttccctcg	gatctccaag	tccgacttct	atgagatcat	1860
gcgcgcacag	cccagtgtgg	tgtgtagctg	ggcgcacacg	gtggcagcca	ggatgtcgcc	1920
cttcgtgcgc	cagatggact	tgcgccatcga	ctggactgca	gtggaggcgg	gacgcgcgct	1980
gtacaggcag	ggcgaccgct	ccgactgcac	ttacatcgtg	ctcaatgggc	ggctgcgtag	2040
cgtgatccag	gcaggcagtg	gcaagaagga	gctggtgggc	gagtacggcc	gcggcgacct	2100
catcgccgtg	gtggaggcac	tgacccggca	gccgcgagcc	acgacggtgc	acgcggtgcg	2160
cgacacggag	ctagccaagc	ttcccgaggg	caccttgggt	cacatcaaac	gccgggtacc	2220
gcaggctcgtg	acccgcctta	tccacctact	gagccagaaa	attctagggg	atttgacgca	2280
cgtgcaagga	cccttcccag	caggtctctg	gttgggtgtg	ccccacact	cggaactcac	2340
caaccacagc	agcaacctgg	caactgtggc	aatcctgcct	gtgtgtgctg	aggtcccat	2400
ggtggccttc	acgctggagc	tgcagcacgc	cctgcaggcc	atcggtcoga	cgctactcct	2460
taacagtgc	atcatccggg	cacgcctggg	ggcctccgca	ctggatagca	tccaagagtt	2520
ccgctgtca	gggtggctgg	cccagcagga	ggatgcacac	cgtatcgtac	tctaccagac	2580
ggacgcctcg	ctgacgcct	ggacgcctcg	ctgcctgcga	caggccgact	gcattcctcat	2640
tgtgggcctg	ggggaccagg	agcctaccct	cggccagctg	gagcagatgc	tggaagaacac	2700
ggctgtgcgc	gcccttaagc	agctagtcct	gctccaccga	gaggagggtg	cgggcccac	2760
gccgaccgtg	gagtggctaa	atatgcgcag	ctgggtgctg	gggacacctg	acctgcgctg	2820
tccgcgcgcg	ctcttttcgc	gccgcagccc	tgccaagctg	catgagctct	acgagaaggt	2880
ttcttccagg	cgcgcggacc	ggcacagcga	cttctccgcg	ttggcgaggg	tgctcacggg	2940
gaacaccatt	gcccttgtgc	tagggcgggg	cggggccagg	ggctgctcgc	acatcgaggt	3000
actaaaggca	ttagaggagg	cgggggtccc	cgtggacctg	gtgggcggca	cgtccattgg	3060
ctctttccatc	ggagcgttgt	acgcggagga	gcgcagcgcc	agccgcacga	agcagcgggc	3120
ccgggagtg	gccaagagca	tgacttcggt	gtgttggaac	gtgttggaac	tcacgtaccc	3180
agtcacctcc	atgttcactg	ggtctgcctt	taaccgcagc	atccatcggt	tcttccagga	3240
taagcagatt	gaggacctgt	ggctgcctta	cttcaacgtg	accacagata	tcaccgcctc	3300
agccatgcga	gtccacaaag	atggctccct	gtggcggtac	gtgcgcgcca	gcattgacgt	3360
gtcgggtcac	ctgccccgc	tgtgcgaccc	caaggacggg	cacctactca	tggtatggcg	3420
ctacatcaac	aatctgccag	cggacatcgc	ccgcagcatg	ggtgccaaaa	cggctcatcgc	3480
cattgacgtg	gggagccagg	atgagacgga	cctcagcacc	tacggggaca	gcctgtccgg	3540
ctggtggctg	ctgtggaagc	ggctgaatcc	ctgggctgac	aaggtaaagg	ttccagacat	3600
ggctgaaatc	cagtcccgc	tggcctacgt	gtcctgtgtg	cggcagctag	aggttgtaaa	3660
gtccagctcc	tactgcgagt	acctgcgccc	gccccatcgac	tgcttcaaga	ccatggactt	3720
tggaagttc	gaccagatct	atgatgtggg	ctaccagtac	gggaaggcgg	tggttgagg	3780
ctggagccgt	ggcaacgtca	ttgagaaaat	gctcacagac	cggcggtcta	cagaccttaa	3840
tgagagccgc	cgtgcagacg	tgtctgcctt	cccaagctct	ggcttccactg	acttggcaga	3900
gatttgttcc	cggattgagc	ccccacagag	ctatgtctct	gatggctgtg	ctgacggaga	3960
ggagtcagat	tgtctgacag	agtatgagga	ggacgcggga	cccgactgct	cgagggatga	4020

```

aggggggtcc cccgagggcg caagtcccag cactgcctcc gagatggagg aggagaagtc 4080
gattctccgg caacgacgct gtctgcccga ggagccgccc ggctcagcca cagatgcctg 4140
aggacctcga caggggtcac cccctccctc ccacccctgg actgggctgg ggggtggccc 4200
gtgggggtag ctcactccc ctctgtctgc tatgcctgtg acccccgagg cccacacact 4260
ggactgacct gccctgagcg gggatgcagt gttgcactga tgacttgacc agccccctcc 4320
ccaataaact cgcctcttgg                                     4340

```

<210> 146
 <211> 1146
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1097580.4

<220>
 <221> unsure
 <222> 24, 38
 <223> a, t, c, g, or other

```

<400> 146
gagcctccgg caccggccgc gcantggagg cggcgggagg aagcccagac tctagccccc 60
tcccccttcc caacagcctt gacttcatct cagctccaga gcccgccctc tcttctctgca 120
gccgggaact tcagccggct ggagccccac catggctgca atccgaaaga agctggtgat 180
cgttggggat ggtgcctgtg ggaagacctg cctctcctc gtcttcagca aggatcagtt 240
tccggaggtc tacgtcccta ctgtctttga gaactatatt gcggacattg aggtggacgg 300
caagcagggtg gagctggctc tgtgggacac agcagggcag gaagactatg atcgactgcg 360
gcctctctcc taccgggaca ctgatgtcat cctcatgtgc ttctccatcg acagccctga 420
cagcctggaa aacattcctg agaagtggac cccagagggtg aagcacttct gccccaacgt 480
gccccatcac ctggtgggga ataagaagga cctgaggcaa gacgagcaca ccaggagaga 540
gctggccaag atgaagcagg agcccgttgc gtctgaggaa ggccgggaca tggcgaaccg 600
gatcagtgcc tttggtacc ttgagtgtc agccaagacc aaggaggagg tgccggagggt 660
gtttgagatg gccactcggg ctggcctcca ggtccgcaag aacaagcgct ggaggggctg 720
tcccattctc tgagatcccc aaggccttcc ctacatgcc cctcccttca cagggggtaca 780
gaaattatcc cctacaacc ccagcctcct gagggctcca tgcgaaggc tcccattttc 840
agttccctcc tgcccaggac tgcattgttt tctagccccg aggtggtggc acgggcctc 900
cctcccagcg ctctgggagc cagcctatg cctgcctt cctcagggcc cctggggatc 960
ttgccccctt tgaccttccc caaaggatgg tcacacacca gcactttata cacttctggc 1020
tcacaggaaa gtgtctgcag taggggaccc agagtccag gccctggag ttgttttcgg 1080
caggggcctt gtctctcact gcatttggtc aggggggcat gaataaaggc tacaggctcc 1140
aacgtg                                     1146

```

<210> 147
 <211> 909
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 391851.1

```

<400> 147
gccgccttag ccacgtcccc tcgcagttcg gcgggtccgc ggggtctgtct cttgcttcaa 60
cagtgttttg acggaacaga tccggggact ctcttccagc ctccgaccgc cctccgattt 120
cctctccgct tgcaacctcc gggaccatct ctctggccat ctctgcttc tgggacctgc 180
cagcaccggt tttgtggtta gctccttctt gccaaaccaac catgagctcc cagattcgtc 240
agaattatcc caccgacgtg gaggcagccg tcaacagcct ggtcaatttg tacctgcagg 300
cctctacac ctacctctct ctgggcttct atttgcacgg cgtatgatgt gctctggaag 360
gcgtgagcca ctcttccgc gaactggcgg aggagaagcg cgagggtac gagcgtctcc 420
tgaagatgca aaaccagcg ggcggcccg ctctcttcca ggacatcaag aagccagctg 480
aagatgagtg gggtaaaacc ccagacgcca tgaaagctgc catggccctg gagaaaaagc 540
tgaaccaggc ccttttggtat ctctatgccc tgggttctgc ccgcacggac ccccatctct 600
gtgacttct ggagactcac ttcttagatg aggaagtga gcttatcaag aagatgggtg 660
accacctgac caacctcac aggcctgggt gcccgaggc tgggctgggc gagtatctct 720
tcgaaaggct cactctcaag cagcactaag agccttctga gcccagcgac ttctgaaggg 780
ccccttgcaa agtaataggg ctctctgccta agcctctccc tccagccaat aggcagcttt 840

```

cttaactatc ctaacaagcc ttggaccaaa tggaaataaa gctttttgat gcaaaaaaaaa 900
aaaaaaaaag 909

<210> 148
<211> 1410
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 013105.9

<220>
<221> unsure
<222> 448-516
<223> a, t, c, g, or other

<400> 148
tctcatgggtt ggaagttgac ggggcatacc caatttttgg aaaagtacac tttattgggtt 60
aaaatgtcat tataattagc aaatgactat acaaaatggc attcttggat tcaatatcca 120
atattatttt gtgcttgaat gaatcaccca gttagttttc tgacaaaaac acaatccttt 180
ttaaaaaaatt tgtttacaat ttcagtatgt tatgtagtta cagatgagta agtcagagaa 240
ttaatttcac aatgaagtaa ttaacacttt caaaggactg tactttaaaaa tttcaaagtg 300
tgatgttttc tattgggtga gaatgagcct aaataaggag taaaaagaca cgagccctac 360
tccttgatct gccaatgaca gatgactttg ggccaccatg ttatctctct gagcctcagt 420
ttccttatgg tgagaacaca gtagtctnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnaatt ttctgctcca tgatgcgtta 540
tctgggtctg gaaacccaaa cctcaagga tggcctggcg catgggggaa ccagcctgct 600
ggggcagggg gctaccaggg ggcttcctat cctggggcct accccgggca ggcaccccca 660
ggggccttat ctggacaggc acctccaggc gcctaccatg gagcacctgg agcttatccc 720
ggagcacctg caccctggag ctaccaggg ccaccagcg gccctggggc ctaccatct 780
tctggacagc caagtgcctc cggagcctac cctgccactg gcccttatgg cgccctgct 840
gggcactga ttgtgcctta taacctgcct ttgcctgggg gagtgggtgc tcgcatgctg 900
ataacaattc tgggcacggg gaagcccaat gcaaacagaa ttgctttaga tttccaaaga 960
gggaatgatg ttgccttcca ctttaaccca cgcttcaatg agaacaacag gagagtcatt 1020
gtttgcaata caaagctgga taataactgg ggaaggggag aaagacagtc ggttttcca 1080
tttgaagtg ggaaaccatt caaaatacaa gtactgggtg aacctgacca cttcaagggtt 1140
gcagtgaatg atgctcactt gttgcagtac aatcatcggt ttaaaaaact caatgaaatc 1200
agcaaatggg gaatttctgg tgacatagac ctaccagtg cttcatatac catgatataa 1260
tctgaaaggg gcagattaaa aaaaaaaaaa gaattctaac cttacatgtg taaagggttc 1320
atgttcactg tgagtgaata tttttacatt catcaatata cctcttgtaa gtcattctact 1380
taataaatat tacagtgaat tacctgtctc 1410

<210> 149
<211> 7319
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 356248.4

<220>
<221> unsure
<222> 4844, 7302
<223> a, t, c, g, or other

<400> 149
acgactgcct gctgttcgag gccggcacgg tggccacgct ggctccagaa gaaaagggaag 60
tcattaaagg acagtatggc aagctcacgg acgcgtacgg ctgcctgggg gagctgaggc 120
tgaaatctgg tggcacgtct ctgagcttcc tgggtgttgg gacaggctgc acatctgtgg 180
gcagaattcc agatgtgaa atctacaaaa tcaactgccac tgacttttac cctcttcagg 240
aagaggccaa ggaggaggaa cgcctcatag ctttgaagaa aatcctcagc tcgggggtgt 300
tctattttct atggccaaac gatgggtctc gctttgacct gactgtccgc acgcagaagc 360
aggggatga cagctctgaa tgggggaact ccttcttctg gaaccagctg ttgcacgtgc 420
ccttgaggca gcaccagggt agctgctgtg actggctgct gaagatcacc tgcgggtgg 480
tcaccatccg caccgtgtat gcctccaca agcaggccaa ggctgcctc gtctctcgcg 540

ttagctgtga	gcgacacagc	actcgcttcc	acacccgtgg	cgtgaacgac	gacggccatg	600
tggtcaactt	cgtggagaca	gagcagatga	tttaccatgga	cgatggagtg	tcattctttt	660
tccagatcag	aggctccgtt	ccgctgttct	gggaacagcc	agggtctcag	gttggctccc	720
atcatctgag	actccacaga	ggcctggaag	ccaatgcccc	tgctttcgac	aggcacatgg	780
tgcttctgaa	ggagcagtac	gggcagcagg	tggtcgtgaa	ccttctggga	agcagaggcg	840
gagaggaggt	gctcaacaga	gccttcaaga	agctgctctg	ggcttcttgc	cacgcgggcg	900
acacgcctat	gatcaatttt	gacttccatc	agtttgccaa	agggtgggaag	ctagagaaat	960
tggagaccct	cttgaggcca	cagttaaagc	tgactggga	agacttcgat	gtgttcacaa	1020
aggggagaa	cgtcagttca	aggtgaggt	cgtgcgcac	tggtcccgct	cttctgctgg	1080
ggggaagcgt	cagtccacgt	tttcagaaag	gcactttgcg	gatgaactgt	cttgactgcc	1140
tggaccgaac	caacactgtg	cagagcttca	tcgcgctoga	ggctcctgat	ctgcagctca	1200
agaccctggg	gctgagttca	aaacccatcg	ttgaccgctt	tgtggagtcc	ttcaaagcca	1260
tggtgtctct	gaattggcca	agcctgagca	aggtgttcac	aggcagcaga	gccctggaag	1320
ggaaggccaa	ggtggggaag	ctgaaggatg	gagcccggtc	catgtctcga	accatccagt	1380
ccaacttctt	cgacgggggtg	aagcaggagg	ccatcaagct	gctgctgggt	ggggacgtct	1440
acggcgagga	ggtggcagac	aaagggggca	tgctgctgga	cagcacggcg	ctcctgggtga	1500
ctccaggatg	ctgaaagct	atgactgagc	gtcagtcoga	attcacaaat	ttcaagcgga	1560
tccggtatgc	tatggggacc	tggaaactga	acggaggaaa	gcagttccgg	agcaacgtgc	1620
tcaggacggc	ggagctgaca	gactggctgc	tcgactcgcc	ccagctctcg	ggagctaccg	1680
actcccagga	tgacagcagc	ccagctgaca	tatttgctgt	ggggtttgaa	gagatgggtg	1740
aattgagcgc	aggggaatatt	gtcaatgcca	gtactaccaa	caagaagatg	tgggggtgaa	1800
agcttcagaa	agccatctca	cgctctcata	gtacattctt	gttgacttcg	gcacagcttg	1860
tgggcgtctg	tctttatatc	tttgtacgtc	cataccatgt	cccgttcac	agggacgtag	1920
ccatcgacac	agtgaagacg	ggcatggggg	gcaaggcggg	gaacaagggc	gccgtcggca	1980
tccgcttcca	gttccacagc	accagcttct	gcttcatatg	tagtcacctg	acggccgggg	2040
agtccagggt	gaaggagcgg	aatgaagact	acaaggagat	caccagaaaa	ctctgtcttc	2100
caatggggag	aaatgttttt	tctcatgatt	atgtattttg	gtgtggcgat	ttcaactacc	2160
gcattgatct	tacttatgaa	gaagtcttct	attttgttaa	acgccaagac	tgggaagaaac	2220
ttctggaatt	tgatcaacta	cagctacaga	aatcaagtgg	aaaaattttt	aaggactttc	2280
acgaaggagc	cattaacttt	ggacccacct	acaagtatga	cgttggtcca	gccgcctacg	2340
atacaagcga	caaatgccgc	acccccgcct	ggacagacag	ggtgctgtgg	tggagggaag	2400
aacatccctt	tgataaaaaca	gctggagaa	tcaaccttct	agacagtgat	ctagatgttg	2460
acaccaaaagt	cagacacacc	tgggtctctg	gtgccttgca	gtattatggt	cgtgcgggagc	2520
tacaagcgtc	tgatcacaga	cctgtgctgg	cgatcgtgga	ggtggaagtt	caggaagtgc	2580
atgtgggtgc	tcgggagagg	gttttccagg	aagtgtcttc	cttccagggc	cccctggatg	2640
ccactgttgt	agtaaacctt	caatcaccca	ccttagaaga	gaaaaacgag	tttccagagg	2700
acctgcgtac	tgagctcatg	cagaccttgg	ggagtattgg	gacaattgtt	cttgtcagga	2760
tcaaccaagg	gcagatgctg	gtaacttttg	cagacagtca	ctcggtcttc	agtgtcctgg	2820
acgtggacgg	tatgaaggtg	aaaggcagag	cagtgaagat	tagaccgaag	accaaggatg	2880
ggctgaaagg	tttgcgagag	gagatcatct	ggaaacgaga	cagcatggcc	cccgtgtctc	2940
ccactgccaa	ctcctgtttg	ctggaggaaa	actttgactt	cacaagtttg	gactatgagt	3000
cagaagggga	tattcttgaa	gacgatgaag	actacttggt	ggatgaattc	aatcagcctg	3060
gggtctcgga	cagtgaactc	gggggagacg	acctctctga	tgtccccggc	cccacagcac	3120
tggctctctc	cagcaagtca	cctgtctotca	ccaaaaagaa	gcagcatcca	acgtacaaag	3180
atgacgcgga	cctgggtggag	ctcaagcggg	agctggaagc	cgtcggggag	ttccgccacc	3240
gttctccgag	caggtctctg	tcgggtcccca	accggcctcg	gccacctcaa	cccccgaga	3300
gacccccccc	tccaaccggt	ttaatgggtg	aaaagtcggc	ttcagatgcg	tccatctctc	3360
ccggcaccca	tgggcagtat	tcaattttgc	agacggcaag	acttctacca	ggagcacctc	3420
agcaacctcc	caaggctcgg	actggaataa	gtaaacctta	taatgtcaag	cagatcaaaa	3480
ccaccaatgc	ccaggaggca	gaagcagcaa	tccggtgtct	cctggaagcc	agaggagggtg	3540
cctccgaaga	agccctaagt	gccgtggccc	caagggaact	tgaagcatcc	tctgaaccag	3600
agcccacacc	gggggcagcc	aaaccagaga	ccccacaggc	gccccactc	cttccccgtc	3660
ggccccacc	cagagttcct	gccatcaaga	agccaacctt	gagaaggaca	ggaaagcccc	3720
tgtaaccgga	agaacagttt	gagcaacaga	ctgtccattt	tacaatcggg	cccccgaga	3780
caagcgttga	ggccccctct	gtcgtgacag	cccctcgagt	ccctcctgtt	ccaaaccaa	3840
gaacatttca	gcctgggaaa	gctgcagaga	ggccaagcca	caggaagcca	gcatcagacg	3900
aagccccctc	tggggcagga	gcctctgtgc	caccacctct	ggaggcgccg	cctcttgtgc	3960
ccaaggtacc	ccgaggagg	aagaagtcag	cccccgagc	cttccacctg	caggtcctgc	4020
agagcaacag	ccagcttctc	cagggcctca	cttacaatag	cagtgcagac	ccctctgggc	4080
accacctgc	cgcgggcacc	gtcttccac	aaggggactt	tctcagcact	tcattctgcta	4140
caagccccga	cagcgtatgg	accaaagcga	tgaagccaga	ggcagcccca	cttcttggtg	4200
attatcagga	ccccctcttg	aaccttcttc	accaccttaa	actgttgaat	aacacttggc	4260
tttctaagag	ctcagacctt	ttggactcag	gaaccaggag	ccccaaaaga	gatcccatag	4320
accagtgctc	agctggcgct	tcagctgcca	aggcagagct	gccaccagat	catggacaca	4380
aaacctatgg	tcactgggtg	acaatcagtg	accaagaaaa	gaggacagca	ctgcaggtgt	4440
ttgaccagga	ggcaaaaaaca	tgactgagca	gctttgaagg	ctgcagctct	atagaatgca	4500
taccttcttc	cctctaggca	tccctccacc	agaagagaca	tctattttaa	ggcacactgg	4560


```

ccaaaaacgtt tgtgcatctg tcaactctcgt gtagttttaca aaaatcgtgt ctctttattca 4620
gtaagatggg tactcagcca ccaaaatata tttcactcaa ggcttggtaca tctgaagttt 4680
gctcttcaag gaatgggaac cttcctgtta aattcgggtg atggatttta agaaagggaat 4740
ctagccaatg aggtccaaga agttctcacc cattgaattt ttaaagggtt gttcagttca 4800
tgtgtacgt gatggagatt tgtcttttct ttattttgca tttnacagat ttggtataac 4860
atthtgggga gccacctgaa ggttgatgta taaagtaagg attagagaaa gaggtcgttg 4920
tgaccattag tagctgtcct ggcccactta aacaagggtta caaaaaatca gagtcggaag 4980
cagccaaata ggtcaaccta atgactagac tgtacattcc catgagcctt catgtttaag 5040
ataccacata aaagcttaacc ttgatgatgc gtgaatcccg agggagccgg tggcatacac 5100
cgtagctta accttagctt aaactagctg aaggctcctg tgccatgtct tagacattgc 5160
atgcctatc aattactata atcctgagcc atgggtgtgt actgaaacca atttttatcc 5220
accatctagt ccttattaaa tgaaacctca cggatccctt gttccgctta tattccatgc 5280
ataccacata aaagcttaacc ttgatgatgc gtgaatcccg agcgatattt gattctcatt 5340
gttagaatat ggagagtgtt tcagcctcgt ctgtccggct ggagcttcgg gatggaaagt 5400
gctatgtgtc cctgcatata agaataacca ggccagtgtt tctgggtttg cttgtctata 5460
tgtttgtcta tattttttgc ctatacattt tcccacgtt tccaacagca cttctcacct 5520
attcaataac tgaaaaagac attaccatgc tgcctttacat ttttaagta atgttacaag 5580
gtctggaatc catttgagc agataccgtg ttttcgtat ttaataagaa gttcagtagt 5640
gaaatcttac tgtaccgctt gttgtatctg ggagcctcgt acagaggctc gcacagcagt 5700
gatcaagtgt catcccttac gtgactgggg gatgtctgtc ctaaaagctg actgctagga 5760
tagtaaggat catcttgctt gggtatgccc actgtcttgt taccaattag acatctggaa 5820
tttcataatt agttttcatt gtcactgtca agatatattg cagattactt aaatatggcc 5880
atcaaaacaa aggttacaac acgtatctct tttcatctga aaactaatac ctggaaaagg 5940
ataaaaaaaa aaaaggaatc cgtgaccac agagctagac agataagatg catagttagc 6000
cagtcataaa aggcgggtgt taggtgatca ggatgccgtt ggtggcattt acgtgcttta 6060
tatgtatttt accttcgtaa caaacacaag aaataaacag aatggtcctt aacagagttt 6120
gggggagaga gcaagatggg ttccctggag aagctgattt gccaaagatgc acatcgctat 6180
taacagccag agtcataaat gaaatgaaat tgaagaattc attcaaatgc tcttttccct 6240
ataacctctt ttctcaccaa aaaggagata aatttgaaaa cagataaatg taacaaccag 6300
tcaagaagc aggggaaaag taagctcctc caaagttgct tgcagtgtcg gaaatagatc 6360
tcatttttag cgtttccgat accaaataaa tgggacagag aataaaattt 6420
ttgttaaaat atgtgctcat ctctaagta gctcttcaga gtctgaccgt aaggtaaaaa 6480
cacacagaat tgtgttgact gggggaggtg aatcacaaaa aagttacgag gagtttaaga 6540
gttaaatatt atttgatcgt ggctgtcaaa tttagtgaac aacatagatt ggatttggag 6600
ttgttagtag tatcgttctt cataccagaa ttctcttaaa aaaaaaaaaa aggacaattg 6660
gaattgcctt atttattttt aaaatcaatg cttactagtt ggtaggattc ccaggtcagc 6720
agcagggttg attaaataat cttgacaatg agcagctgcc atcttggggg atttcattct 6780
gtggtttttt aaatgtttcg tctttgatgc taccatccag ggcttcttat tgtgaccttg 6840
tagctatttt tgttctctac gttctctaac atgggtcagt tcacgcagac tgggttaggt 6900
acttcacaac tcaccattgt ctctctgacc ccaagcctag tcccttttac atcaccatct 6960
tctcagactt cttgcctatt cttaaaatat gttttgggtt atgattgaat taggacatca 7020
gcttaagcaa ttccgttaac ggtttaacgt tgttgaaagt caaggcacat aataaaattc 7080
tccctagtag gtgtgtaagt ataacaagag aagcgttcac tttataatga 7140
agtcatttca ttgggaagga aagctgcaaa gattattggg ggactagtga ttaataaaat 7200
cctgtaatat ttttgaagtg aaaatttgta ctgaaattgt acatgatacc tattaaatgt 7260
tttgtctttt ttttaaatct ggtttatttc ttttcagata tngaagagaa cttagaata 7319

```

<210> 150

<211> 5729

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 331045.1

<400> 150

```

atgaggaggg acgagcgaga cgccaaagcc atgcgggtccc tgcagccgcc ggatggggcc 60
ggctcgcccc ccgagagtct gaggaacggc tacgtgaaga gctgcgtgag ccccttgcgg 120
caggaccctc cgcgcggttt cttcttccac ctctgccgtc tctgcaacgt ggagctgcgg 180
ccgcgcggcg cctctcccca gcagccggcg cgtgtctccc cctctgccc ggccgcctc 240
tcgctgggag acctggctgc ctttgtctc gccctgctgc tgggagcgga acccgagagc 300
tgggctgccc gggccgctcg gctgcggacg ctgctgagcg tgtgttcgca cagcttgagc 360
cccccttcca gcatcgctg tgccttcttc ttctcactt gcttctcac cggaccaag 420
cggggacccc gcccgggccc gagctgcggc tcttggtggt tgctggcgct gcccgctcgc 480
tgttacctgg gggacttctt ggtgtggcag tgggtgtctt ggcttgggg ggatggcgac 540
gcagggtccg cggccccgca cacgcccccg gaggcggcag cgggcagggt gctgctggtg 600

```


ctgagctgcg	tagggctgct	gctgacgctc	gcgacccgcg	tggggtcccg	gcactgcgtt	660
ctgggtgctgc	tccctggccag	cttcgtcttg	tgggtctcct	tcaccagcct	cgggtcgctg	720
ccctccgccc	tcaggccgct	gctctccggc	ctgggtgggg	gcgctggctg	cctgctggcc	780
ctggggttgg	atcacttctt	tcaaatcagg	gaagcgctc	tcacctctcg	actgtccagt	840
gccgcgaag	aaaaagtgc	tgtgatccga	ccccggagga	ggtccagctg	cgtgtcgta	900
ggagaaactg	cagccagtta	ctatggcagt	tgcaaaatat	tcaggagacc	gtcgttgctt	960
tgtatttcca	gagaacagat	gattcttttg	gattgggact	taaaacaatg	gtataagcct	1020
cattatcaaa	attctggagg	tggaaatgga	gttgatcttt	cagtgcataa	tgaggctcgc	1080
aatatggtgt	cagatcttct	gactgatcca	agccttccac	cacaagtcac	ttcctctcta	1140
cggagtatta	gtagcttaat	gggtgctttc	tcagggttcc	gtagggccaa	gattaatcct	1200
ctcacaccat	ttcctggatt	ttaccctctg	tctgaaatag	aggaccacgc	tgagaaagg	1260
gatagaaaa	ttacaagg	actaaatagg	aatagtttgc	caactccaca	gctgaggaga	1320
agctcaggaa	cttcaggatt	gctacctgtt	gaacagtcct	caagggtggg	tcgtaataat	1380
ggcaaaagac	ctcaccaaga	atttggcatt	tcaagtcaag	gatgctatct	aaatgggcct	1440
tttaattcaa	atctactgac	tatcccgaag	caaaggctcat	cttctgtatc	actgactcac	1500
catgtaggtc	tcagaagagc	tgggtgtttg	tccagtctga	gtcctgtgaa	ttcttccaac	1560
catgtaccag	tgtctactgg	ctctctaac	ctctgatcac	ccatagaatt	tcctgatact	1620
gctgattttc	ttataaagcc	aagcgttatc	ttgcagagat	ctctgggcaa	tgacacctaat	1680
actccagatt	tttatcagca	acttagaaat	tctgatagca	atctgtgtaa	cagctgtgga	1740
catcaaatgc	tgaaatatgt	ttcaacatct	gaatcagatg	gtacagattg	ctgcagtgga	1800
aaatcagggt	aagaagaaaa	cattttctcg	aaagaatcat	tcaaatctat	ggaaactcaa	1860
caagaagagg	ttcaagacag	gaaagacagc	agaaaattat	tcagggaagg	tgataaagg	1920
ctaacagaag	aggcacagag	tgaacagcaa	acaaatatgt	aacaggaagt	atcactggac	1980
ctgatttttag	tagaagagta	tgactcatta	atagaaaaga	tgagcaactg	gaattttcca	2040
atttttgaac	ttgtagaaaa	gatgggagag	aaatcaggaa	ggattctcag	tcaggttatg	2100
tatactctat	ttcaagacac	tggttttatt	gaaatatatta	aaattcccac	tcaacaattt	2160
atgaactatt	ttcgtgcatt	agaaaatggc	tatcgagaca	ttccttatca	caatcgtata	2220
catgccacag	atgtgctaca	tgcagtttgg	tatctgacaa	cacggccagt	tcctggctta	2280
cagcagatcc	acaatggttg	tggaaacagga	aatgaaacag	attctgatgg	tagaattaac	2340
catggcgcaa	ttccttatat	ttcttcgaag	agctgctcta	atctgatgga	gagttatggc	2400
tgctgtctct	caaacattcc	tgcattagaa	ttgatggctc	tatacgtggc	agctgccatg	2460
catgatttat	atcaccacag	gaggacaaat	gcatttctag	tggtacaaa	tgccctcag	2520
gcagttttat	acaatgacag	atctgttctg	gaaaatcatc	atgctgcgtc	agcttggaa	2580
ctatctttt	ctcgcacaga	atacaacttc	cttcttcac	ttgatcatgt	ggaattcaag	2640
cgtttctgtt	ttttagtcat	tgaagcaatc	cttcttacgc	atcttaaaaa	gcattttgat	2700
tttctcgcag	aattcaatgc	caaggccaaa	tgatgtaaat	agtaatggca	tagaatggag	2760
taatgaaaa	gatcgccctt	tgggtatgcc	ggtgtgcatc	aaactggcag	atataaatgg	2820
cccagcaaaa	gttcgagact	tgcatttgaa	atggacagaa	ggcattgtca	atgaatttta	2880
tgagcaggga	tgtagaagaag	caaactcttg	tctgccatc	agtccattca	tggtatcgtt	2940
ttctcctcaa	ctagcaaaac	tccaagaatc	ttttatcacc	cacatagtgg	gtccctctgt	3000
taactcctat	gatgctgctg	gtttgctacc	aggctcagtg	ttagaagcag	aagaggataa	3060
tgatactgaa	agtgggtgat	atgaagacgg	tgaagaatta	gatacagaag	atgaagaaat	3120
ggaaaacaat	ctaaatccaa	aaccaccaag	aaggaaaagc	agacggcgaa	tattttgtca	3180
gctaattgcac	cacctcactg	aaaaccacaa	gatattggaag	gaaatcgtag	aggaagaaga	3240
aaaaatgtaa	gctgatggga	ataaactgca	ggtggagaat	tcctccttac	ctcaagcaga	3300
tgagattcag	gtaattgaag	aggcagatga	agaggaatag	cgacagtttg	agtaaaagaa	3360
aagtcatatt	gaagaagccc	agagggttgt	gccacggggc	agaaatcatt	gcctagtgtt	3420
caccggctga	ctctcaactg	accattccca	cttgggacag	ccttaatact	gtgagaggat	3480
cctgtctctg	ctggcagttt	ccactccta	tgcactttca	caggaaactag	aaaactattc	3540
ttaaacaaaa	aataccatcc	gtgttgaccc	atgttgcaga	gcccttactt	aaatccttca	3600
ctgggtgtat	aatactttgt	cataatgctg	ttctgtctgg	tagtgagctc	ttatttttca	3660
ctgggggtgca	gctataacta	aaaactcaag	tgacataatt	cagttaccaa	agtggccagg	3720
aactttttgc	ttttatgaaa	atagattcat	attgtatttc	ccagtgtgtc	ttttatgtct	3780
ttgaatgttt	tggagaaaag	tctatgcctg	tctaaaaatg	aatccagtgt	tgcccttctg	3840
agggattttc	gctcaatgca	atacactgtt	cagtgtctatt	ctcccagcta	ggttttatcca	3900
tgaaggactg	agtgaacctt	gttgtattta	acaaaatcca	ggtgcatcaa	tttctgatgc	3960
tttttactat	tgtgtattat	ctactatgtg	tgttttattt	ctgctgagag	tattcagggt	4020
tgccatggac	atcagaagtt	tgaattccag	tcttatctta	tgttccatgg	ctgaatttta	4080
aagctgttta	ggttttaacaa	tgaagggatt	tattcttttag	tcaaaaattgt	tgtttttact	4140
ctagctcagg	attctgtatt	ttaaagattt	agttaatata	aacacagcac	agattttgtca	4200
gaagaaaaaa	aatttgcgtg	aataccaaaa	ctaactcat	caaagataca	gaaaaaaaga	4260
aatatagtga	gccctaaagg	acacatacat	tgaataaata	attggaacat	gtgggttatct	4320
ttagatccac	atcttagctg	tcatattgtt	actctaaaac	tgatgttcat	ctttctgtta	4380
atttccctct	gccctaaagac	tacatgacag	aaatgacctc	tcactactta	ttattttctga	4440
agcctaactg	gcaagactga	tttctgagaa	caagtaaaaga	actggaatac	ttatttttca	4500
tataaaaaatc	taaattgtgt	aataaatcat	ttcatacaaa	agtacattat	taaataacca	4560
cattattaaa	ataattgcaa	gaaaatggac	catattttaca	atgtttttgta	aacttgctag	4620

tgtgtggata	tgtaccctac	ttgtgaaata	catttgaaga	tataaagagc	agccaaaatg	4680
atggcaaaat	ggtaggctaa	tattttctat	tattattgga	gaacatatca	tatttttgga	4740
tcatgcaatt	ttgcacacag	tgaaccatt	aattttccaa	ggtaatctct	ttagaatatg	4800
gtattggcat	gcagtttctt	acttatctag	aatatttggc	ttatctgaaa	gatatcaatt	4860
taagatctct	ggaagtgtta	gaatttttga	tccttcacag	tgtcaatatt	taatgaatca	4920
ctaagcttta	tttatttagac	gtgttgagtg	agtgtgagtg	tccttgctgc	cacttttggt	4980
accattgtca	cacactatgt	gtaaaccagt	cccaccactt	attactaata	aaattttgac	5040
tgataattta	tatttgcact	tacaatatat	atatcctgtc	cttatatttc	tctagagtac	5100
attttccatc	atgtttaagt	gtattttctg	tattatttcc	tctcctgcag	aatacataca	5160
agtgtatgtg	tataaagtea	tacatgtaca	agcatgcata	ttgagattga	atcacatttc	5220
catactgtct	gttattttat	tgggttttat	attgggtttc	tttagtttat	gttgggtttc	5280
tcaaaagcag	cattttaaat	tacgaatact	ggacttattg	gatttaatta	taaatacaat	5340
tactactgga	aactcatttt	tacataatat	agtccttaaa	ttattttaacc	cttgctaagt	5400
aattgacata	tgtaacaata	actagcctaa	agaaacccaa	aaaagtatct	ctcccgagct	5460
gaaacttaaa	aattcgtaag	tgtaagaaag	aatgtgagaa	tataattaat	gcacactgta	5520
ccattagatg	aaatcttact	tgagaaattg	ccataagcca	tattacagat	cttactttga	5580
ttgttactga	atcagattaa	tttcttgtta	taataatttt	catcataaat	tttctatttt	5640
taaagccgct	ggtactagaa	atattctttt	aatgctatat	ctatgtacct	actgacacat	5700
ttttctccat	aaaagtactt	ttaaaaatt				5729

<210> 151

<211> 6094

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 482480.3

<400> 151

gaattccctt	ttctggggcac	cgcccttctgc	taggggggttg	tagatgaaag	tgccctgctcc	60
cagagaagct	tgtctaacct	agcacagttt	ctaagctacc	caggctgcca	gaccgagcga	120
ccgtgctgcc	atggacacag	actctcagcg	ttctcatctc	tcttccctca	ccatgaagct	180
gatggacaaa	ttccactcac	ccaaaatcaa	gagaacgcca	tcaaagaagg	gaaaaccagc	240
tgaggtgtcc	gtaaagattc	cagagaagcc	tgtgaacaaa	gaggcaacag	acagatttct	300
accagagggc	taccctctcc	ccttggatct	ggagcagcag	gcagtagaat	ttatgtccac	360
cagtgtctgtg	gcttccaggt	ctcaaaggca	gaagaacctg	agctggctgg	aggagaaaga	420
gaaggaggtt	gtcagtgccc	tgcgctactt	taagaccatt	gtggacaaaa	tggcaattga	480
taagaaggta	ctggagatgc	ttccagggtc	agccagcaag	gtgctggagg	ccatcttacc	540
cctgggtgcag	aacgatctct	gaattcagca	cagctcagcc	ctctcttctc	gctatagccg	600
agtgtaccaaa	agcctcgcca	acctcattcg	ctggctctgac	caagtgatgc	tgggaaggcgt	660
gaactcagaa	gacaaggaga	tggtgacgac	tgtgaagggg	gtcatcaagg	ctgtgtctgga	720
tgagtggaag	gagctggtea	ggctcaccat	cgagaagcag	ggacgtccgt	ctccgacgag	780
cccgtgtaag	cccagttccc	ctgccagcaa	gcctgatggc	ccagcagagc	tccccctgac	840
agaccgcgag	gtagagatcc	taaacaagac	gactgggatg	tcacagtcaa	ctgagctcct	900
ccagatgcc	acggatgaag	aggctcgccc	ccccaaagcc	cctctgcctg	gcattcgggt	960
ggttgataat	agtcctccac	cagcattgcc	acccaagaaa	agacagtcgg	cgccgtcccc	1020
taccggagtg	gctgtggtgg	cccccatgag	ccgagccacc	agtggctcca	gtttgctgt	1080
tggaaatcaat	aggcaggatt	ttgatgttga	ctgttacgca	cagaggcgac	tgtcaggagg	1140
cagccactca	tatggtggag	agtcgccccg	cctctcccc	tgacgacgca	taggcaagct	1200
cagcaagtca	gacgagcagc	tgctctctct	ggacagggac	agtgggcagt	gctccccgaa	1260
cacaagctgt	gaaacactag	accactatga	tcccagactat	gaattcctcc	agcaagacct	1320
ctctaacgca	gaccagatac	ctcagcagac	ggcctggaac	cttagcccg	tgccagagtc	1380
tttgggggag	tctgggtctc	catttcttgg	ccctccttct	cagctgcctc	ttggcgccca	1440
tccccagcca	gacggacctc	tggccccagg	gcagcagaca	gatacgccac	ctgctctccc	1500
cgagaagaag	cgcaggagcg	cagcctccca	gacggcggag	ggctctggct	gcagggtgtc	1560
ctacgagcgg	catccctcgc	agtatgacaa	catctctggg	gaggacctgc	agagcacagc	1620
cccgatccca	tccgtccctt	acgcgccttt	tgctgctatt	ctgcccttct	agcatggagg	1680
ttctcagcc	cctgtcgaa	ttgtgggtga	ttttactgct	cctgagtcga	ccggtgacct	1740
agaaaaacca	cctcctctac	cagagaagaa	aaacaaacac	atgctggcct	acatgcagtt	1800
gctggaggac	tactcggagc	cgcagccctc	tatgttctac	cagacgccac	agaacgagca	1860
catctaccag	cagaagaaca	agctcctcat	ggaggtatac	ggcttcagcg	actccttcag	1920
tggggtggac	tccgtgcagg	agctggcccc	gccgcccgc	ctacccccca	agcagcggca	1980
gctggagcca	ccggctggga	aagacggaca	tcccagagat	ccctcagcgg	tcagcggcgt	2040
ccctgggaag	gacagcagag	acggcagtg	gagggcccca	aagtcaccag	atgctctgga	2100
gtcgggtcag	tcggaggagg	aagtggacga	gctgtccctc	attgaccaca	acgaaattat	2160
gtccaggctg	acgctcaagc	aggagggtga	tgacgggccc	gacgtccgag	gaggatctgg	2220

ggacatctta	ctgggtccatg	ctactgagac	tgacaggaaa	gatttgggtg	tgtactgcga	2280
ggcattctctg	accacctaca	ggaccttcat	ctccccagag	gagctcatca	agaagctgca	2340
gtacagatat	gagaaattct	ctccctttgc	cgacacattc	aagaagcgcg	tcagcaagaa	2400
cacgttcttc	gtgctggtag	gggtgggtgga	tgagctctgc	ctgggtggagt	tgacagaaga	2460
gatcctgaag	ctgctgagtg	aactgggtctt	ccgcctgggtg	tgcaatgggg	agctgagcct	2520
ggccccgtgtg	ctccggaaga	acatcctgga	caaggtggac	cagaagaagc	tactcaggtg	2580
tgccacctcc	agccagcccc	tgccagcccc	gggggtagca	gccaggccgg	ggaccttgca	2640
cgactttcac	agccatgaga	tagcggagca	gctaacgctg	ctggatgctg	agctcttcta	2700
taaaatagag	attcctgagg	ttttgctttg	ggcaaaagag	cagaatgagg	agaagagccc	2760
caacttgacc	cagttcacgg	agcacttcaa	caacatgtcc	tactgggtcc	ggtccataat	2820
catgtttacag	gaaaaggccc	aggacaggga	acggctgtctc	ttgaagtcca	tcaagatcat	2880
gaagcattgc	ggaagctgaa	taacttcaac	tcttacttgg	ccatcctctc	tgccctggag	2940
tcggcgcccc	tccgcaggct	ggagtggcag	ccacagactt	cagaggccct	ggccgagtag	3000
tgacactga	tcgacagctc	gtcctccttc	cgagcctacc	gggcccgcct	ctcggagggtg	3060
gaaccgcgct	gcattccgta	cctgggggct	gatcctgcag	gacctgacct	tcgttcacct	3120
gggaaaccca	gactacatcg	acgggaaagt	gaacttctcc	aagcgggtggc	agcagttcaa	3180
catcctcgag	agcatcgctg	gcttccagca	ggcgcactat	gacatgcgga	ggaacgacga	3240
cattataaac	ttcttcaatg	aacttcagtga	ccacctggct	gaggaggccc	tatgggaact	3300
gtctctgaaa	attaaaccca	ggaacataac	aaggagaaaa	acagaccggg	aagagaagac	3360
ctaggagcag	acgcggggat	ccaggagaat	gctcgagggg	cgagaggggc	agctcccaga	3420
cgggagagga	ccttggaact	gttaggcgca	tgccagggagt	cccggcctcg	gagccatgag	3480
gctggccagc	cctcagcggg	gccggggcgg	agctggagcc	tgccagccgc	ttcctgcttc	3540
cttctctgt	gggagcagac	ccgtgggcct	cagggcagcc	agcaggcagg	tcttgttgcc	3600
aatttcaaaa	ccggtggttt	tctggtttgg	ttttgttttc	tgcttttact	tccatctctc	3660
ccctcttgac	cttccaccca	ctccctccca	gggagagagc	agcagagacc	tcattcagcag	3720
accaagggaag	tggtgggtgc	tcccctccc	taagctccag	ggtccctgaa	tcttctgaaa	3780
tctcaaatga	gtggagcgtc	cctgggggtg	cctgtctctc	agggggccctg	gaatgggggc	3840
aagcagctgg	gtgggcagaa	tgccagagtag	actcggggga	ggatcctttc	actttccgct	3900
tccccttctg	atgcatggag	gatggtgtga	gcttttccagc	aggcccgga	aggtacgcag	3960
gtgacgcctt	agcagccccg	cagctgggtgc	tctgccccgc	ggtactggcg	ccatcagggc	4020
ctcccttgcc	cgctcgctg	cagcagcagt	ctctgtcatc	ccgtcgcccc	ttacccccca	4080
ccccaggcca	ctggggccct	cccacaccac	ctggggagct	gagaagagga	ggctggagta	4140
agggaggact	tgatcatcca	agaaataact	tttattgctg	ggagtcttct	gaacctcacc	4200
aaactgagge	cagagctgag	ctcctggggg	agtttaattca	gaggggagag	gccagcacct	4260
ccctctccca	tgctgcctta	actccatctc	atgtccctcc	atgtccctcc	ccatccctcg	4320
gcttcccttc	cctccttgcc	ccatcctggg	ccagccagca	gggctcctcc	tctggctctt	4380
cagacctttc	agccagtgtc	gtcagtgcgc	ctgggaggga	agggcatccc	tgaggcaccc	4440
gaatgggtccc	tcagggtgca	gggaggcaga	agccttgcca	cagaggagcc	tcctaaggca	4500
gcagctgcag	caagcgcacc	ctctcccacg	ctctcccacg	ccagagcggc	ttccagagca	4560
gatgctgttt	ccatcctcct	cgtaaaaacc	attctcgctg	ctgagcttga	caatctgggc	4620
aaggcttggtg	gggcgcttga	caaacagaat	ctgccctgtg	ccgcctgggt	ccgtggcctc	4680
cagcatgagc	ctgcaggcag	ggcgctgcgg	gaacccagtt	gtgctgcccc	agcccatgcc	4740
tccgggtgag	ctgctgcctg	atgagtgctc	acttctcccg	ggtttaggac	gtgggtcaagt	4800
gaacagcagg	gtctaactgt	gcttacttag	ccagtttcaa	acagaacaaa	ggaaaaatat	4860
agaaagcaac	atctgttgat	catttaggtt	ttttttttaa	ccaccatgtc	actttgagtc	4920
cttcatgggt	ttttgaacag	catttatcaa	gaagaaaatg	tgggtctttt	cccctctccc	4980
gtgttttgtt	tgctctgtag	atagagggtg	gaaagccgtg	cagtggcagg	cgggaccccc	5040
tctggtggcg	gtgctgtggt	cttgcggggc	cttgcggggc	cagccggggc	ctgtcacttt	5100
attatttaag	gagtgtgtgt	gtagagtcgc	tggttatta	acagtattgt	gtgtgggttg	5160
ggtttttagt	ttgttccctc	tttttgaagt	cccttcattt	caatccttga	ctctctctcc	5220
ccttcccttg	ccagctctg	ttgaatgctg	ctgtgcgcgt	gtgagggccg	ctctgcacac	5280
agggcccttg	ggttgtgtga	actgaaatc	tccctgtatt	tgtagactc	gcaggagtcc	5340
ccatctgtag	cacaggcaat	gccagtgcga	tgctgcagcc	tcagaaacca	ggcctctcac	5400
tccagcagca	ggcagaaccg	tgtctgtggt	cgggtgtctg	ccacagctct	gtctgccttg	5460
ttcttgggct	tgagctggat	agaggtgggg	tctcttcacc	ttccctgaat	tcagaacaga	5520
ccctgtgccc	ggcccagtg	tgcccaggca	attccccagg	ccctcatttg	gagcccttgg	5580
tgctctgagc	agcaggggcc	aggcagcaca	tgagcagtg	ccagggggctc	cctgcgtgag	5640
gacggcaagg	tgcatgtat	gtctaactta	ttgatggcag	gcagccccct	gtgcccccta	5700
agcctggccc	tggttattgc	tgagctctgt	gctcagtgct	gcgccctggc	cgtggctcgt	5760
ctgttccctt	ggggggcccg	ggcgggttgt	gggaatcagt	cttcacagac	agacgtgagc	5820
caggcgagg	actcgttcc	tgacaggtc	agtcctcacc	tgacaggtgc	ggggtggggg	5880
ggggcaagga	ggggcaggca	cacaccatgt	ctgacctgaa	cccgaattctg	gggagcatct	5940
tcccgcctcg	gccccacgac	ctccacaggg	ttacattgta	atatatatgc	cccagctaac	6000
ctgtctgatg	gtggcatctt	cctgcagaca	tttcaaacat	gtaactttta	tatgaaaaaa	6060
aataaacaca	gatgaaagct	gcccattgcc	aaac			6094

<210> 152

<211> 2341
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 245099.8

<400> 152
gctgccaggt ccgggacggg ggcgctggcg gttgctgtca gctgattccc ggggttggtg 60
gcagcggcgg tagcagcaat ggactttctc ctggggaacc cgttcagctc tccagtggga 120
cagcgcacgc agaaagccac agatggctcc ctgcagagcg aggactgggc cctcaacatg 180
gagatctgcg acatcatcaa cgagacggag gaaggtccca aagatgccct ccgagcagta 240
aagaagagaa tcgtggggaa taagaacttc cagcaggtga tgctggctct cacagtctta 300
gaaacctgtg tcaagaactg cgggcaccgc ttccacgtgc tgggtggccag ccaggacttc 360
gtggagagtg tgctgggtgag gaccatcctg cccaagaaca acccaccacac catcgtgcat 420
gacaaagtgc tcaacctcat ccagtcctgg gctgacgcgt tccgcagctc gcccgatctg 480
acaggtgtgg tcaccatcta tgaggacctg cggaggaaag gcctggagtt ccccatgact 540
gacctggaca tgctgtcacc catccacaca cccagaggga ccgtgttcaa ctcagagaca 600
caatcaggac aggattctgt gggcactgac tccagccagc aagaggactc tggccagcat 660
gctgccctc tgcccgcctc gcccatactc tccggtgaca cgcccatagc accaaccctg 720
gaacagattg ggaagctgcg cagtgcgtgc gagatgggtg gtgggaacgt gagggtgtg 780
tcggagatgc tgacggagct ggtgccacc caggccgagc ccgcagacct ggagctgtg 840
caggagctca accgcacgtg ccgagccatg cagcagcggg tcctggagct catccctcag 900
atcgccaatg agcagctgac agaggagctg ctcatcgtca atgacaatct caacaatgtg 960
ttcctgcgcc atgaacggtt tgaacggttc cctgatcgac atgggcccctg acccagcagc caccggcaac 1020
gaggccgagc cggcagctga cctgatcgac atgggcccctg acccagcagc caccggcaac 1080
ctctcatccc agctggcagg aatgaacctg ggtccagca gtgtgagagc tggcctgcag 1140
tctctggagg cctctggtcg actggaagat gagtttgaca tgtttgcgtg gacacggggc 1200
agctcactgg ctgaccaacg gaaagaggta aaatacgaag ccccccaagc aacagacggc 1260
ctggctggag ccttggacgc ccggcagcag agcactggcg cgatcccagt caccagggcc 1320
tgccctcatg aggacatcga gcagtggctg tccactgacg tgggtaatga tgcggaagag 1380
cctaaggggg tcaccagcga agaatttgac aaattcctgg aagaacgggc caaagcccg 1440
gaccgattgc ccaacctctc cageccctca gctgaggggc ccccggtcc cccatctggc 1500
ccagcgcccc ggaagaagac ccaggagaaa gatgatgaca tgctgtttgc cttatgagt 1560
tggggtctgg caccctgcag ccaggtccc cactgctctc acacccttag gctgggacct 1620
ccctccctcc tctggtgtta aggtctgttt ggggtggct tgttacccc ttttctct 1680
ctttgaagac ggagctgccc cagctgtggc tgggggtgtg gaggcagtgg gatgaactgg 1740
gggacaggtc tgcgtgcag tgggatctgg ctgctctgcc tcctttccca cccagctga 1800
ccatgagact ttgctgagaa gtggaggccc caggacagggc tggctggctg gctggctgct 1860
tgaccagtg tgactctcct tcaactgagt ataccctgct ccgggcccac gccccaagga 1920
gcccttcaga gccacactg ccagtcgagg cctggctgga ggctggccac agtggaaatt 1980
ctgcgagggc tcttgcctc gctgcaggg gctgcaggg gcccatggc tttggtggc 2040
cactgagggg aggggtgtga ggtgtggag cccctgagg agctgcggcg gccaggtac 2100
gaagctcaa ctctgcgcgc agtgggagag atctcatcag cccagggctg cagggtgaggc 2160
ttcaggggat gctggggccc cactgcccct ccgctgcctt gccctccatc ctctctctgt 2220
tccttctggc cgggcaccac agcactgggg ctacactctt ggttgatcct cttgtactgg 2280
gagaggtgcc ttttgtatcc ccaattaaag gtagaaaacc accctgctaa gcagcattgt 2340
c 2341

<210> 153
<211> 2020
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 245481.2

<400> 153
gcggcggcag cggaggcggc ggctccagcc ggcgcggcgc gaggctcggc ggtgggatcc 60
ggcggcggt gctagctccg cgctccctgc ctgcctcgct gccggggcg gtcggaaggc 120
gcggcgcgaa gcccgggtgg cccgagggcg cgactctagc cttgtcacct catcttgccc 180
ccttggtttt ggaagtctg aagagtgtgt ctggaggacg aggaggacat tgatgtgctt 240
ggtgtgtggc cagtgggtga gagatggctg ctctgtccc gtgggcctgc tgtgtgtg 300
ttgcgcgcgc cgccgcagtt gtctacgccc agagacacag tccacaggag gcaccccatg 360
tgacgtacga gcgcctgggc tctgacgtga cactgccatg tgggacagca aactgggatg 420

```
ctgcggtgac gtggcgggta aatgggacag acctggcccc tgacctgctc aacggctctc 480
agctggtgct ccatggcctg gaactgggcc acagtggcct ctacgcctgc ttccaccgtg 540
actcctgggc acctgcgcca ccaagtccctg ctgcatgtgg gcttggcgcc gcgggagcct 600
gtgctcagct gccgtccaa cacttaccct aagggtctct actgcagctg gcattctgcc 660
acccccacct acattccaa caccttcaat gtgactgtgc tgcattggctc caaaattatg 720
gtctgtgaga aggaccagc cctcaagaac cgctgccaca ttcgctacat gcacctgttc 780
tccaccatca agtacaagg ctccataagt gtcagcaatg ccctggggcca caatgccaca 840
gctatcacct ttgacgagtt caccattgtg aagcctgatc ctccagaaaa tgtggtagcc 900
cggcagtgcc ccagcaaccc tcgccggctg gaggtgacgt ggcagacccc ctgcacctgg 960
cctgaccctg agtcttttcc tctcaagttc tttctgctg accgacccct catcctggac 1020
cagtggcagc atgtggagct gtccgacggc acagcacaca ccattcacaga tgcctacgcc 1080
gggaaggagt acattatcca ggtggcagcc aaggacaatg agattgggac atggagtgc 1140
tggagcgtag ccgcccacgc tacgcctgg actgaggaac cgcgacacct caccacggag 1200
gccagggctg cggagaccac gaccagcacc accagctccc tggcaccccc acctaccacg 1260
aagatctgtg acctggggga gctgggcagc ggccgggggac cctcggcacc ctctcttggtc 1320
agcgtcccca tcaactctggc cctggctgcc gctgcgcgcca ctgccagcag tctcttgatc 1380
tgagcccgcc accccatgag gacatgcaga gcacctgcag aggagcagga ggccggagct 1440
gagcctgcag accccggttt ctattttgca cacgggcagg aggacctttt gcattctctt 1500
cagacacaa ttgtggagac ccggcggggc ccgggcctgc cgccccccag cctgcgcgca 1560
ccaagctggc cctccttcc cctcagggg aggtggggcca tgcagctaac ccaccacca 1620
aagaccccc caccctggcc ccttgggctg gacctccaa tgccagcgac tccaggagc 1680
ccttggggga cgtgagggga gctctcaca tccgatttct cctcctgcc cagcctcctg 1740
tctatccag ggtctctgt gccaccatca gattataagc tctgatgct ggggggggcc 1800
agccatcccc ctccccccag caccacaaat tttcagtcct ctccctctg cctgttttg 1860
tatacccctc cctgaccct gctcctatcc cacagtattt aatgcctgt cagtcccttc 1920
tagtctgact caatggtaac ttgctgtatt tgaatttttt atagatgtat atacagggtg 1980
gggggagctg gcggttctca ttaaagctca ccatttcatt 2020
```

<210> 154

<211> 3011

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 225021.4

<220>

<221> unsure

<222> 2821-2851

<223> a, t, c, g, or other

<400> 154

```
acggctgcca cctctctaga ggcacctggc ggggagcctc tcaacataag acagtgacca 60
gtctgggtgac tcacagccgg cacagccatg aactaccgcg taacgctgga aatggacctc 120
gagaacctgg aggacctgtt ctgggaactg gacagattgg acaactataa cgacacctcc 180
ctggtggaaa atcatctctg ccctgccaca gagggggccc tcatggcctc cttcaaggcc 240
gtgttcgtgc ccgtggccta cagcctcatc ttctcctgg gcgtgatcgg caacgtcctg 300
gtgctggtga tcttgagcgg gcaccggcag acacgcagtt ccacggagac ctctctgttc 360
cacctggccg tggccgacct cctgctggtc ttcatcttgc cctttgccgt ggccgagggc 420
tctgtgggct gggctctggg gaccttcttc tgcaaaactg tgattgccct gcacaaagtc 480
aacttctact gcagcagcct gctcctggcc tgcatcgccg tggaccgcta cctggccatt 540
gtccacgcgg tccatgccta ccgccaccgc cgcctcctct ccattccacat cactgtgggg 600
accatctggc tgggtgggctt cctccttgcc ttgccagaga ttctcttcgc caaagtcagc 660
caaggccatc acaacaactc cctgccacgt tgcaccttct cccaagagaa ccaagcagaa 720
acgcatgcct ggttcacctc ccgattcctc taccatgtgg cgggattcct gctgcccatt 780
ctgggtgatgg gctggtgcta cgtgggggta gtgcacaggt tgcgccaggc ccagcgggc 840
cctcagcggc agaaggcagt cagggtggcc atcctggtga caagcatctt cttcctctgc 900
tggtcacctc accacatcgt catcttctct gacaccctgg cgaggctgaa ggccgtggac 960
aataacctgc aagctgaatg gctctctccc cgtggccatc accatgtgtg agttcctggg 1020
cctggccca cctgctctca accccatgct ctacacttcc gccggcgatg agttccgag 1080
tgacctgtcg cggctcctga ccaagctggg ctgtaccggc cctgcctccc tgtgccagct 1140
cttccctagc tggcgagga gcagtctctc tgagtcagag aatgccacct ctctcaccac 1200
gttctaggtc ccagtgtccc cttttattgc tgccttttct tggggcaggc agtgatgctg 1260
gatgtcctc ccaacaggag ctgggaccc aagggtcac cgtgggctaag agtgctcctg 1320
gagtatctc atttggggta gctagaggaa ccaaccccca tttctagaac atccctgcca 1380
gctcttctgc cggccctggg gctaggtctg agcccaggga gcggaaagca gctcgaaggc 1440
```

```

acagtgaagg ctgtccttac ccatctgcac ccccttgggc tgagagaacc tcacgcacct 1500
cccatcctaa tcatccaatg ctgaagaaac aacttctact tctgcccttg ccaacggaga 1560
gcgctgcccc ctcccagAAC acactccatc agcttagggg ctgctgacct ccacagcttc 1620
cctctcttcc tectgcccac ctgtcaaaac aagcccagaa gctgagcacc aggggatgag 1680
tggaaggttaa ggctgaggaa aggccagctg gcagcagagt gtggccttcg gacaactcag 1740
tccctaaaaa cacagacatt ctgccaggcc cccaagcctg cagtcatctt gaccaagcag 1800
gaagctcaga ctggttgagt tcaggtagct gcccttggct ctgaccgaaa cagcgtgagg 1860
tccaccccat gtcaccgat cctgggtggt ctgcaggcag ggctgactct aggtgccctt 1920
ggagggcagc cagtacctg aggaagcgtg aaggccgaga agcaagaaag aaacccgaca 1980
gagggaaagaa aagagcttcc tccccgaacc cccaaggagg gagatggatc aatcaaacc 2040
ggcgttcccc tccgccaggc gagatggggt ggggttgaga actcctaggg tggctgggtc 2100
cagggttgagg gaggttgagg gcattgatgg ggaaggaggc tggttctgct cctcctcact 2160
cccttcccat aagctataga cccgaggaaa ctcagagtcg gaacggagaa aggtggactg 2220
gaaggggccc gtgggagctc tctcaacct cccctcctg gcacacactt aggcagggaa 2280
gtgtaagaaa cactgaggc cagggaagtc cccaggcccc aggaagcctg gccctgcccc 2340
cgtgaggatg tactcagat ggaaccgcag gaagctgctc cgtgcttggt tgctcacctg 2400
gggtgtggga ggccctgccc gcagttcttg gtgctcccta ccacctcccc agcctttgat 2460
caggtgggga gtcagggacc cctgcccttg tccactcaa gccagcagc caagctcctt 2520
gggaggcccc actggggaaa taacagctgt ggctcacgtg agagtgtctt cacggcagga 2580
caacgaggaa gccctaagac gtcccttttt tctctgagta tctcctcgca agctgggtaa 2640
tcgatggggg agtctgaagc agatgcaaag aggcaaggag ctggattttg aattttcttt 2700
ttaataaaaa ggcacctata aaacaggtca atacagtaca ggcagcacag agaccccg 2760
aacaagccta aaaattgttt caaaataaaa accaagaaga tgtcttcaca tattgtattt 2820
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn natggtacaa aatggctggg ggtgtggcca 2880
tggaactggg aggggagggt cactgactca gatgaactgt tctccccctt ctttgataag 2940
aagtaggtgg cagcagcctc tggaaaagtc agggcccttg aggttacctg gccaggggct 3000
actacagcca c

```

<210> 155

<211> 899

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 451767.28

<400> 155

```

gacaggagac ggacaggggt cagatgacct tgatagggaa gagaggggtg tgacggtggt 60
cagaatttca aattttaatt aaaatgaaaa aaaaatgtca acttggaatg tcatgatttt 120
cttcaaacaa gcaacgacaa caaaatagaa gagattaaac tattggcata tttaacagca 180
ttgaacagaa ttctgtgtcc tgtaaaaaaa ttagcttatg tccccatgtg ggtatatgca 240
aatgtgtata caaacatata cccctagggt agctaaacac tattctggaa atagtatcct 300
ctaccctaat ctacttggct atactgttgg atagtgtatg gtgtgtgtat ttatccaatt 360
tacataaaag aaagctcctg gccaaatcta ccaagcgtt ttccattatg taagaaagta 420
gggattgtca cacatgggca gtcagatgtg atattttgcc agaggaaaaa aaatgatgct 480
ggtcctgaaa gttgtcatgc ttcaaactca caattgagga aaggaaatctg atagattcac 540
tgaaatcata ataactcaaa agattagtag aattctaggc tcatcaggaa gttttaggga 600
tggtatgtat gatcttttat ataaaatagc gttttgtgtc tacatgaaat gtcacatatg 660
aatgttaaaa acgtagaaga gtagggaaatc ttaggggaaa ggagagtaat ggaggcctg 720
ggatgtgggt ttgtactata atacactaaa aagagtattt cttaggggtg agagatgaaa 780
actgttagga aatactatta tgggccaaga attttgatgg gaatggaaca tgtgaatgtc 840
actctgatca cttttatgta aaaattataa ttaattaat aaaaaattc ttaagaagt 899

```

<210> 156

<211> 2430

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 902142.11

<400> 156

```

tgatttctc cctattttcc ctgcatttct cctctgtgct cattgccaca tgcagctcag 60
cctgggctac acagccagggt gtcagatgtg tctctgctga tctgagctg cctgtggcat 120
ggacctgcat cttccctgaa gcactctccag ggctgaaaaa tcaactgacca tggcaccatg 180

```

```

gtctcatcca tctgcacagc tgcagccagt gggaggagac gccgtgagcc ctgccctcat 240
ggttctgtct tgcctcgggc tgagtctggg cccagaggacc cactgtcagg caggtgagtc 300
tgtccccagc tgtcccaggt ccctcctcct caatggggac aaagggccac ccattgggag 360
ctggagggtga agaccgcagt tctgggtgat tgatggggac gtctggaggg tcctcgggct 420
gagagctggg atctgagggg tggggaggtc ttggagccca gactctgatt tccttcagg 480
gaactcccca aaccaccct ctgggctgag ccaggctctg tgatcagctg ggggaactct 540
gtgaccatct ggtgtcaggg gaccctggag gctcgggagt accgtctgga taaaggaggaa 600
agcccagcac cctgggacag acagaacca ctggagccca agaacaaggc cagattctcc 660
atcccatcca tgacagagga ctatgcaggg agataccgct gttactatcg cagccctgta 720
ggctggtcac agcccagtga cccctggag ctggtgatga caggagccta cagtaaacc 780
accctttcag ccctgccgag tcctcttgtg acctcaggaa agagcgtgac cctgctgtgt 840
cagtcaaggg gcccaatgga cacttttctt ctgatcaagg agcgggcagc ccattcccta 900
ctgcatctga gatcagagga cggagctcag cagcaccagg gctgaattcc ccatgagtc 960
tgtgacctca gtgcacggg ggacctacag gtgcttcagc tcacacggct tctccacta 1020
cctgctgtca caccacagtg acccctgga gctcatagtc tcaggatcct tggagggtcc 1080
caggccctca cccacaaggt ccgtctcaac agctgcaggc cctgaggacc agccctcat 1140
gcctacaggg tcagtcccc acagtgtct gagaaaggc tgggaggtag tgatcgggtg 1200
cttgggtggt tcactcctgc ttctctcctt cctcctcttc cctcctcttc caacactggc 1260
gtcagggaaa acacaggaca ttggcccaga gacaggctga ttccaacgt cctccagggg 1320
ctgccgagcc agagcccaag gacgggggccc tacagaggag gtccagccca gctgctgacg 1380
tccagggaga aaacttctgt gctgccgtga agaacacaca gctgaggac ggggtggaaa 1440
tggacactcg gagccacac gatgaagacc cccaggcagt gacgtatgcc aaggtgaaac 1500
actccagacc taggagagaa atggcctctc ctccctcccc actgtctggg gaattcctgg 1560
acacaaagga cagacaggca gaagaggaca gacagatgga cactgaggct gctgcatctg 1620
aagcccccca gtagtgacc tacgccagc tgcacagctt taccctcaga cagaaggcaa 1680
ctgagctctc tccatccag gaaggggccc ctccagctga gccagtgct tatgccact 1740
tggccatcca ctaatccagg ggggaccag accccacaag ccatggagac tcaggacct 1800
agaaggcatg gaagctgct ccagtagaca tcaactgaacc ccagccagc cagaccctg 1860
acacagacca ctagaagatt ccgggaacgt tgggagtcac ctgattctgc aaagataaat 1920
aataccctg cattatcaaa ataaagttag agacctctca attcacaatg agttaactga 1980
taaaacaaaa cagaagttag acaatgtttt aaattgaaat atcatgtaaa tattacacat 2040
caaaccaatg acatgggaaa atgggagctt ctaatgagga caaacaacaaa atagagaaaa 2100
attaataaag tcaaaatgtt tattcttgaa aacattaatg atacatgaat cttgggggca 2160
ccatggaggg aaaattccat actgggataa agggaaacct attcaataca agggccgggg 2220
ggttaccoga aatccgggaa ttccgcaaaa gcgcggggac aataagggtg gtttccccg 2280
ggtggggaaa aaattgttta ttacggccct cactgaatgt ttcccgacat atgaatttcc 2340
gggagccggg gtaagccctc ataaagtgtg ttaaaaaccc tcttgggggg gggccctaa 2400
attgtaaaat aaggcccccg aaccctccac

```

<210> 157

<211> 5329

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 291095.5

<220>

<221> unsure

<222> 5225, 5317, 5319, 5321

<223> a, t, c, g, or other

<400> 157

```

gcggtatggc gcgctttgac tctggagtgg gagtgggagc gagcgttct ggcactccag 60
ttgtgagagc cgcaaggggc atgggaattg acgccaacta ccgaccccca gtctcaatct 120
caacgtgtgt aggaacacct gactttgcca ggtccccaag ggcagcgggg ctcggcgagc 180
gaggcaccct tctccgtccc catcccaatc caagcgtctc tggcactgac gacgccaaga 240
gactcgagtg ggagttaaag cttccagtga gggcagcagg tgtccaggcc gggcctgcgg 300
gttctgtgtg acgtcttgcc ctaggcaaag gtcccagttc cttctcggag ccggtgttcc 360
cgcccaactg gaaaccgcac ctcccgcag catgggcacc agcctcagc cgaacgacc 420
ttggccgcta aaccgcgtgt ccatccagca gaccacgctc ctgctactcc tgtcgggtgt 480
ggccactgtg catgtgggac agcggctgct gaggcaacgg aggcggcagc tccggtccgc 540
gccccggggc cgttttgcgt ggccactgat cggaaacggc ggcggcgttg gccaggcggc 600
tcacctctcg ttgcctgcgc tggcgcggcg ctacggcgac gttttccaga tccgctggg 660
cagctgcccc atagtgtgtc tgaatggcga gcgcgccatc caccaggccc tgggtgcagc 720
gggctcggcc ttgcgcgacc ggccgtcctt cgcctccttc cgtgtgtgtt ccggcggccg 780

```


cagcatggct	ttcggccact	actcggagca	ctggaagggtg	cagcggcgcg	cagcccacag	840
catgatgcgc	aactttcttca	cgcgccagcc	gcgcagccgc	caagtccctcg	agggccacgt	900
gctgagcgag	gcgcgcgagc	tgggtggcgct	gctgggtgcgc	ggcagcgcg	acggcgccctt	960
cctcgaccgc	aggccgcgtga	ccgtcgtggc	cggtggccaac	gtcatgagtg	ccgtgtgttt	1020
cggtgcgcgc	tacagccacg	acgaccccgga	gttcctgtgag	ctgctcagcc	acaacgaaga	1080
gttcggggcgc	acgggtggg	cgggcagcct	ggtggacgtg	atgccctggc	tgcagtactt	1140
ccccaaaccg	gtgcgcaccg	ttttccgcga	attcgagcag	ctcaaccgca	acttcagcaa	1200
cttcacctcg	gacaagttct	tgaggcactg	cgaagcctt	cggcccgggg	ccgcccccg	1260
cgacatgatg	gacgccttta	tccctctctgc	ggaaaagaag	gcggccgggg	actcgcacgg	1320
tgggtggcg	cggtctggatt	tggagaacgt	accggccact	atcactgaca	tcttcggcgc	1380
cagccaggac	accctgtcca	ccgcgctgca	gtggctgctc	ctcctcttca	ccaggtatcc	1440
tgatgtgcag	actcgagtgc	aggcagaatt	ggatcagggtc	gtggggagg	accgtctgcc	1500
ttgatgggt	gaccgcctca	acctgcctca	tgtcctggcc	ttcctttatg	aagccatgcg	1560
cttctccagc	tttgtgcctg	tcactattcc	tcactgccacc	actgccaaca	cctctgtctt	1620
gggctaccac	attcccaagg	acactgtggt	ttttgtcaac	cagtggctctg	tgaatcatga	1680
cccagtgaa	tggcctaacc	cggagaactt	tgatccagct	cgattcttgg	acaaggatgg	1740
cctcatcaac	aaggacctga	ccagcagagt	gatgatTTTT	tcagtgggca	aaaggcgggtg	1800
caattggcgaa	gaactttcta	agatgcacct	ttttctcttc	atctccatcc	tggctcacca	1860
gtgcgatttc	agggccaacc	caaagtggcc	tgcgaaaatg	aatttcagtt	atggtctaac	1920
cattaaaccc	aagtcattta	aagccaagga	cactctcaga	gagtcctatg	agctccttga	1980
tagtgctgtc	caaaattttac	aagccaagga	aacttgccaa	taagaagcaa	gaggcaagct	2040
gaaatttttag	aaatatttcac	atcttcggag	atgaggagta	aaattcagtt	tttttccagt	2100
tccctctttt	tgtctcttct	caattagcgt	ttagggtgag	cataaatcaa	ctgtccatca	2160
gggtgaggtg	gctccatacc	cagcggttct	tcattgagtag	tgggctatgc	aggagcttct	2220
gggagatttt	ttttgagtca	aagacttaaa	gggccaatg	aattattata	tacatactgc	2280
atcttggtta	ttctgtaagg	tagcattctt	tggagttaaa	atgcacatat	agacacatac	2340
acccaacac	ttacacaaa	ctactgaatg	aagaagtatt	ttggtaacca	ggccattttt	2400
ggtgggaatc	caagattggt	ctcccatatg	cagaaataga	caaaaagtat	attaaacaaa	2460
gtttcagagt	atattgttga	agagacagag	acaagtaatt	tcagtgtaaa	gtgtgtgatt	2520
gaaggtgata	agggaaaaaga	taaagaccag	aaattccctt	ttcacctttt	caggaaaata	2580
acttagactc	tagtattttat	gggtggattt	atccttttgc	cttctgggtat	acttccttac	2640
ttttaaggat	aaatcataaa	gtcagttgct	caaaaagaaa	tcaatagttg	aattagttag	2700
tatagtggg	ttccatgatt	tatcatgaat	tttaaggtat	gcattattaa	attgtaaaac	2760
tccaaggtga	tgttgtacct	cttttgcttg	ccaaagtaca	gaatttgaat	tatcagcaaa	2820
gaaaaaaaaa	aaagccagcc	aagcttttaa	ttatgtgacc	ataatgtact	gatttcagta	2880
agtctcatag	gttaaaaaaa	aaagtcacca	aatagtgtga	aataatattac	ttaactgtcc	2940
gtaagcagta	tatttagtatt	atcttggttca	ggaaaagggt	gaataatata	tgccttgtgt	3000
aatattgaaa	attgaaaagt	acaactaacg	caaccaagtg	tgctaaaaat	gagcttgatt	3060
aaatcaacca	cctatttttg	acatggaaat	gaagcagggt	ttcttttctt	cactcaaat	3120
ttggcgaatc	tcaaaattag	atcctaagat	gtgttcttat	ttttataaca	tctttattga	3180
aattctattt	ataatacaga	atcttggttt	gaaaaataacc	taattaatat	attaaaattc	3240
caaattcatg	gcattgctta	attttaacta	aattttaaag	ccattctgat	tattgagttc	3300
cagttgaa	tagtggaat	ctgaacattc	tctctgtgga	ggcagagaaa	tctaagctgt	3360
gtctgcccaa	tgaataatgg	aaaatgccat	gaattacctg	gatgttcttt	ttacgaggtg	3420
acaagagtgt	gggacagaa	tccattaca	actgaccaag	ttctcttctt	agatgatttt	3480
ttgaaagtta	acattaatgc	ctgctttttg	gaaagtcaga	atcagaagat	agtcttggaa	3540
gctgttttga	aaagacagtg	gagatgaggt	cagttgtgtt	ttttaagatg	gcaattactt	3600
ttgtagctgg	gaaagcataa	agctcaaatg	aaatgtatgc	attcacattt	agaaaagtga	3660
attgaagttt	caagttttta	agttcattgc	aattaaactt	ccaaagaaag	ttctacagt	3720
tccataagtc	taagtgtcta	ttacattttta	tttagctttt	tggaaatctt	gtacacaaat	3780
tttaaaaaag	ggagtttttg	atagttgtgt	gtatgtgtgt	gtgggtggg	gggatggtaa	3840
gagaaaaagag	agaaaacatg	aaaagaagga	aagatgggtta	aacattttcc	cactcattct	3900
gaattaatta	atttggagca	caaaattcaa	agcatggaca	tttagaagaa	agatgtttgg	3960
cgtagcagag	ttaaatctca	aataggctat	taaaaaagtc	tacaacatag	cagatctgtt	4020
ttgtggtttg	gaatattaaa	aaacttcatg	taattttatt	ttaaaatttc	atagctgtac	4080
ttcttgaata	taaaaaatca	tgccagtatt	tttaaaggca	ttagagtcaa	ctacacaaag	4140
caggettggc	cagtacattt	aaattttttg	gcacttgcca	ttccaaaata	ttatgcccc	4200
ccaaggctga	gacagtgaat	ttgggtgtgt	gtagcctatt	tttttagatt	gagaaatgtg	4260
tagctgcaaa	aataatcatg	aaccaatctg	gatgcctcat	tatgtcaacc	aggtccagat	4320
gtgctataat	ctgtttttac	gtatgtaggc	ccagtcgtca	tcagatgctt	gcggcaaaag	4380
gaaagctgtg	tttatatgga	agaaagtaag	gtgcttggag	tttacctggc	ttttttaata	4440
tgcttataac	ctagttaaag	aaaggaaaag	aaaacaaaaa	acgaatgaaa	ataactgaat	4500
ttggaggctg	gagtaatcag	attactgctt	taatacagaa	ccctcattgt	gtttctaccg	4560
gagagagaat	gtatttgcgt	acaaccatta	aagtcagaag	ttttactcca	ggttattgca	4620
ataaagtata	atgttttata	aatgcttcat	ttgtatgtca	aagctttgac	tctataagca	4680
aattgctttt	ttccaaaaca	aaaagatgtc	tcagggtttgt	tttgtgaatt	ttctaaaagc	4740
tttcatgtcc	cagaacttag	cctttacctg	tgaagtgtta	ctacagcctt	aatattttcc	4800

tagtagatct	atattagatc	aaatagttgc	atagcagtat	atgttaattt	gtgtgttttt	4860
agctgtgaca	caactgtgtg	attaaaaggt	atacttttagt	agacatttat	aactcaagga	4920
taccttctta	tttaatcttt	tcttattttt	gtactttatc	atgaatgctt	ttagtgtgtg	4980
cataatagct	acagtgcata	gttgtagaca	aagtacattc	tggggaaaca	acatttatat	5040
gtagccttta	ctgtttgata	taccaaatta	aaaaaaaatt	gtatctcatt	acttatactg	5100
ggacaccatt	acaaaaataa	taaaaatcac	tttcataatc	ttgttatgaa	gttttatgtt	5160
gtagcaaata	tagtctaatt	tatcacttta	tttcaactat	tacagtgcaa	tattttaatt	5220
gaatnatcca	tagtaatagt	tgaaataaag	tgatacatta	gactatattt	caactattac	5280
tatggattat	tcaattaaaa	tattgcactg	taaaaanana	naaaaaggg		5329

<210> 158

<211> 1889

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 332919.4

<220>

<221> unsure

<222> 1655-1681, 1882

<223> a, t, c, g, or other

<400> 158

gctcgaggga	gtgttacttc	ggttcccagg	ttggaagatt	atctcacccg	gccccagcta	60
tataagctga	cgggtgtgga	ggggcccagc	agggccaact	ccagggatcc	cttccacgac	120
agaaaaacat	acaagactcc	ttcagccaac	atgatggtac	tgaaagtaga	ggaactggtc	180
actggaaga	agaatggcaa	tggggaggca	ggggaattcc	ttcctgagga	tttcagagat	240
ggagagtatg	aagctgtgtg	tacttttagag	aagcaggagg	atctgaagac	acttctagcc	300
cacctgtgtg	ccctggggga	gcaacagtgg	aaaagcgaga	aacaacgaga	ggcagagctc	360
aaaaagaaaa	aactagaaca	aagatcaaag	cttgaaaatt	tagaagacct	tgaaataatc	420
attcaactga	agaaaaggaa	aaaatacagg	aaaactaaag	ttccagtgtg	aaagggaacca	480
gaacctgaaa	tcattacgga	acctgtggat	gtgcctacgt	ttctgaaggc	tgctctggag	540
aataaactgc	cagtagtaga	aaaattcttg	tcagacaaga	acaatccaga	tgtttgtgat	600
gagtataaac	ggacagctct	tcataagagca	tgcttgggaag	gacatttggc	aattgtggag	660
aagttaaatg	aagctggagc	ccagatcgaa	ttccgtgata	tgcttgaatc	cacagccatc	720
cactgggcaa	gccgtggagg	aaacctggat	gttttaaaat	tgttgctgaa	taaaggagca	780
aaaatttagcg	cccagagataa	gttgetcagc	acagcgctgc	atgtggcggt	gaggactggc	840
cactatgagt	gcgcgggagca	tcttatcgcc	tgtgaggcag	acctcaacgc	caaagacaga	900
gaaggagata	ccccgttgca	tgatgcgggtg	agactgaacc	gctataagat	gatccgactc	960
ctgattatgt	atggcgcgga	tctcaacatc	aagaactgtg	ctgggaagac	gccgatggat	1020
ctggtgctac	actggcagaa	tggaaccaaa	gcaatattcg	acagcctcag	agagaactcc	1080
tacaagacct	ctcgcatagc	tacattctga	ggcaaacgac	agactcttaa	tcagtaaatg	1140
ttcactggca	ttttgaaggc	atggcccaag	agaagagaca	ctagccataa	aatctagttt	1200
ctatttatca	acgtgttggtg	aagatgtacc	taatgaagtt	ttgagaaagc	acagggttat	1260
aggtgtttaa	atttccctta	gtgaaactct	tatttatatt	tatgtattcc	tgtttattta	1320
tttactgcc	cgctactgat	attcagacct	tcatgatcat	ccatctgggtg	agcagagctt	1380
catttgtata	taacactttc	agagccttcc	cacccatagg	tagttcttaa	accaggtgaa	1440
agagcaaaagt	tcaagtgcct	acttatgtgt	cattcgctca	tgtaagagtt	tttaagagag	1500
ggctgattat	cacagccctc	ttttctcctg	aatttttaat	gcagaagttt	gaatgaagca	1560
agggaaaggca	tgtagggaca	ggaaaggaaa	caatggaagg	aaagtgattc	tgtgaaaagg	1620
acagtgaagc	cagctatttt	acccccaggc	tggannnnnn	nnnnnnnnnn	nnnnnnnnnn	1680
naccgagtac	acagagtacc	caagtgaaga	gaacgtcatg	agtgtgaagt	caaatacagt	1740
gaaggagcgg	caaactggga	catgcagaat	tgaatttgct	caaaaaagat	gaaaggaaat	1800
gcaaaactgta	aatgtataaa	tgtatattgt	attgtatgta	cattttatat	tcataataaa	1860
ggcaatcaaa	ctctaaaaaa	anaaaaaaa				1889

<210> 159

<211> 3128

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 387130.26

<220> .
 <221> unsure
 <222> 60, 69
 <223> a, t, c, g, or other

<400> 159
 gggaaggtgg ctgtggagag tggagttagg acagtggggg agaagttaaa actgtagggn 60
 ttggccaanc tgggtgaggg gatccaagca gtgctagaca tgctcttgaa tgccctcct 120
 ttctctggcc ctccccccag gtatgtctctg gcatccatt tctcttgggg tctgtggtcc 180
 atcctccagg catccatgtc caccatagaa tttggttact tggactatgc ccagtctcgg 240
 ttccagttct acttccagca gaaggggagc ctgaccagtg tccactcctc atcctgactc 300
 caccctccca ctcttggat ttctcctgga gcctccaggg caggaccttg gagggaggaa 360
 caacgagcag aaggccctgg cgactgggct gactctaag ccacccatc cagcagactc tggggccccc 420
 accggcctgt tectgagttt caaccttcac cgcacagaaa ccagcccg ccttgcaatt 540
 caggtctcca gacctttgag ccaaccccc aagtgggcga agctcaccag gccgtggcct 600
 cccaccgagg ggtgacccca gacggggctg acttccggct cagtcgggag gccctgaac 660
 acgtctacct gtctgggac aactcctgga agaaacgcct gatccgcac aagaatggca 720
 tctcagggg cgtgtacctt ggcagcccca ccagctggct ggtcgtcatc atggcaacag 780
 tgggttctct cttctgcaac gtggacatct ccttggggct ggtcagttgc atccagagat 840
 gcctccctca ggggtgtggc ccctaccaga ccccgagac cggggcactt ctcagcatgg 900
 ccactctctc cactggcgct tgggtgacgg gcatcttctt cttccgcaa accctgaac 960
 tgctctctct ctaccatggg tggatgtttg agatgcatgg caagaccage aacttgacca 1020
 ggatctgggc tatgtgtatc cgccttctat ccagccggca ccctatgctc tacagcttcc 1080
 agacatctct gcccaagctt cctgtgcccc ggtgtgcagc cacaattcag cggtagctag 1140
 agtctgtgag ccccttgttg gatgatgagg aatattaccg catggagtgg ctggccaaag 1200
 aattccagga caagactgtg ccagggctgc agaaatacct ggtgctcaag tcatggttgg 1260
 caagtaacta tgtgagtgc tgggtgggaag agtacatcta ccttcgaggc aggagccctc 1320
 tcatgtgaa cagcaactat tatgtcatgg accttgtgct catcaagaat acagacgtgc 1380
 aggcagcccg cctgggaaac atcatccag ccatgatcat gtatcgccgt aaactggacc 1440
 gtgaagaaat caagcctgtg atggcactgg gcatagtgc tatgtgctcc taccagatgg 1500
 agaggatgtt caacaccact cggatcccg gcaaggacac agatgtgcta cagcacctct 1560
 cagacagccg gcacgtggct gtctaccaca agggacgctt cttcaagctg tggctctatg 1620
 agggcgcccc tctgctcaag cctcaggatc tggagatgca gttccagagg atcctggacg 1680
 accctccccc acctcagcct ggggaggaga agctggcagc cctcactgca ggaggaaagg 1740
 tggagtgggc gcaggcacgc caggccttct ttagctctgg aaagaataag gctgccttgg 1800
 aggccatcga gcgtgccgct ttcttctgtg ccctggatga ggaatcctac tctatgacc 1860
 ccgaagatga ggccagcctc agcctctatg gcaaggccct gctacatggc aactgctaca 1920
 acaggtggtt tgacaaatcc ttactctca ttctctcaa gaatggccag ttgggtctca 1980
 atgcagagca tgcgtgggca gatgtctcca tcattgggca cctctgggag tttgtcctgg 2040
 gcacagacag cttccacctg ggctacacgg agaccgggca ctgcctgggc aaaccgaacc 2100
 ctgcgctcgc acctcctaca cggctgcagt gggacattcc aaaacagtgc caggcgggtca 2160
 tcaagagttc ctaccagtg gccaaaggct tggcagacga cgtggagtgg tactgcttcc 2220
 agttcctgcc ctttggcaaa ggctcctatc agaagtgcg gaccagccct gatgccttgg 2280
 tgcagatcgc gctgcagctg gctcacttcc gggacagggg taagtcttgc ctgacctatg 2340
 aggcctcaat gaccagaatg ttccgggagg gacggactga gactgtgcgt tectgtacca 2400
 gcgagtccac agcctttgtg caggccatga tggaggggtc ccacacaaaa gcagacctgc 2460
 gagatctctt ccagaagcct gctaagaagc accagaatat gtaccgctg gccatgaccg 2520
 gggcagggat cgacaggcac ctcttctgcc tttacttggg ctccaagtac ctaggagtca 2580
 gctctccttt ccttgcgtgag gtgtctctcg aacctggcg tctctccacc agccagatcc 2640
 cccaatccca gatccgcag ttgcagccag agcagcacc caatcacctg ggcgctggag 2700
 gtggccttgg cctgtagca gatgatggct atggagtct ctacatgatt gcaggcgaga 2760
 acacgatctt cttccacatc tccagcaagt tctcaagctc agagacgaac gccagcgct 2820
 ttggaacca catccgcaaa gccctgctgg acattgctga tcttttccaa gttcccaagg 2880
 cctacagctg aagcccttag gtacctgtgt tttgtttggg aactcggagg ccctccccct 2940
 cccccagctc agaccacaga ggtggcaaga gaagggtcga agctggaaga ctgttcatga 3000
 gggacttgtg tgacctgctt tgaaatgtgt gactctgctg agtgacgtag gctctgagat 3060
 agctgtccac gccacgtgt ttgcttggaa taaatacttg cctcagaacc ttcaaaaaaa 3120
 aaaaaaaa 3128

<210> 160
 <211> 3171
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<223> Incyte ID No: 410580.13

<220>

<221> unsure

<222> 2732-2835, 2837, 2839, 2846, 2861, 2868-2869, 3158

<223> a, t, c, g, or other

<400> 160

```
acagctgtgt ttggtgcag ggccaagagc gctgtcaaga agacccacac gccccctgc 60
cagcagctga attcctggca gctcagcagc gcgccccaga gcaggacgaa ccgccaatcg 120
caagggcacc tctgagaact tcaggatgca gatgtctcca gccctcacct gcctagtctc 180
gggcttgccc cttatctttg gtgaagggtc tgctgtgcac catcccccat cctacgtggg 240
cccactgggc ctcagacttc ggggtgaggg tgtttcagca ggtggcgagc gcctccaagg 300
accgcaacgt ggttttctca ccttatgggg ttggcctcggg gttggccatg ctccagctga 360
caacaggagg agaaaccag cagcagattc aagcagctat gggattcaag attgatgaca 420
agggcatggc ccccgccctc cggcatctgt acaaggagct catggggcca tggacaagg 480
atgagatcag caccacagc gcgatcttcg tccagcgga tctgaagctg gtccagggtc 540
tcatgcccc a tttcttcagg ctgttcggga gcaagtggac ttttcaggag 600
tggagagagc cagattcctc atcaatgact ggggtgaagac acacacaaaa ggtatgatca 660
gcaacttgct tgggaaagga gccgtggacc agctgacacg gctggtgctg gtgaatgcc 720
tctacttcaa cggccagtgg aagactccct tccccgactc cagcaccac cgccgcctct 780
tccacaaatc agacggcagc actgtctctg tgcccatgat ggctcagacc aacaagtcca 840
actatactga gttcaccacg ccgatggcc attactacga catcctggaa ctgccctacc 900
acggggacac cctcagcatg ttcattgctg cccttatga aaaagagggtg cctctctctg 960
cctccacca cttctgagt gccagctca tcagccactg gaaaggcaac atgaccaggc 1020
tgcccgcct cctggttctg cccaagtctc cctggagac tgaagtgcac ctgaggaa 1080
cctagagaa cctgggaatg accgacatgt tcagacagtt tcaggctgac ttcacgagtc 1140
tttcagacca agagcctctc cacgtcgcgc aggcgtgca gaaagtgaag atcgagggtga 1200
acgagagtgg caggtggcc tctcatcca cagctgtcat agtctcagcc cgcattggccc 1260
ccgaggagat catctggag agacccttcc tctttgtggt ccggcacaac cccacaggaa 1320
cagtcccttt catgggcaa gtgatggaac ctgaccctg gggaaagacg ccttcattctg 1380
ggacaaaact ggagatgcat cgggaaagaa gaaactccga agaaaagaat tttagtgtta 1440
atgactcttt ctgaaggaag agaagacatt tgccctttgt taaaagatgg taaaccagat 1500
ctgtctccaa gacctggcc tctccttggg ggacctttag gtcaaactcc ctagtctcca 1560
cttgagacc ctttgagaa gtttgaagca caactccctt aaggtctcca aaccagacgg 1620
tgacgcctgc gggaccatct ggggcacctg cttccacccg tctctctgcc cactcgggtc 1680
tgacagctgc gttccactg aggccttttg caggacggaa ctacgggggt tacaggagct 1740
tttgtgtgcc tggtagaaac tatttctgtt ccagtcacat tgccatcact cttgtactgc 1800
ctgccaccgc ggtgacaggc ggtgacaggg caaaggccag tggagaaac accctttcat 1860
ctcagagtc actgtggcac tggccacccc tccccagtag aggggtgctg cagggtggcag 1920
agtgaatgtc ccccatcatg tggcccaact ctcttggect ggccatctcc ctcccagaa 1980
acagtgtgca tgggttattt tggagtgtag gtgacttgtt tactcattga agcagatttc 2040
tgcttctctt tatttttata ggaatagagg aagaaaggte agatgcgtgc ccagctctc 2100
accccccaat ctcttggtgg ggaggggtgt acctaaatat ttatcatatc cttgcccttg 2160
agtgttgtt agagagaaag agaactacta aggaaataaa tattatttaa actcgctcct 2220
agtgtttctt tgtgtctgt gtcaccgtat ctcaggaagt ccagccactt gactggcaca 2280
caccctccg gacatccagc gtgacggagc ccacactgcc accttggtgc cgcctgagac 2340
cctcgcgcc cccgcgccct ccttttcccc ttgatggaaa ttgaccatac 2400
aatttcaccc tcttcaggg gatcaaaagg acggagtggg gggacagaga ctcatatgag 2460
gacagagtgg tttccaatgt gttcaataga tttaggagca gaaatgcaag gggctgcatg 2520
acctaccagg acagaacttt cccaattac aggggtgactc acagccgcat tgggtactca 2580
cttcaatgtg tcatttcggg ctgctgtgtg tgagcagtg acacgtgagg ggggggtggg 2640
tgagagagac aggcagctcg gattcaacta ccttagataa tattcttgaa aacctaccag 2700
ccagagggtg gggcacaag atggatgtaa tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 2760
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 2820
nnnnnnnnnn nnnnnnnnnn ataactnaat atatattct natatctnna aatatagata 2880
tatatggtaa agaccaatct atgggagaat tgcacacaga tgtgaaatga atgtaactca 2940
atagaagcct aatcagccca ccatgttctc cactgaaaaa tcctctttct ttgggttttt 3000
tctttctttt ttttttgatt ttgcaactga cgggtgacgtc agccatgtac aggatccaca 3060
gggtgtgtgt caaatgctat tgaaattgtg ttgaattgta tgctttttca cttttgataa 3120
ataaacatgt aaaaatgttt caaaaaaata ataaaatnaa taaatacgaa g 3171
```

<210> 161

<211> 4034

<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 251715.1

<220>
<221> unsure
<222> 3303-3501
<223> a, t, c, g, or other

<400> 161
gagatcccag cgctgcagaa cttgggggagc gcgcgcgcgc atccgcgcgc gcagccagct 60
tcctgccgcc gcaggaccgg cccctgcccc agcctccgca gccgcggcgc gtccacgccc 120
gcccgcgcgc agggcgagtc ggggtcgccg cctgcacgct tctcagtgtt ccccgcgccc 180
cgatgttaac ccggccagcg ccccgcaact gtgtccctg cagctccagc cccgggctgc 240
accccccgcc cccgacacca gctctccagc ctgctcgctc aggatggcgc cggccaaggc 300
cgagatgcag ctgatgtccc cgctgcagat ctctgacccg ttcggatcct ttcctcactc 360
gcccaccatg gacaactacc ctaagctgga ggagatgat ctgctgagca acggggctcc 420
ccagtctctc ggcgcgcgcg gggccccaga gggcagcggc agcaacagca gcagcagcag 480
cagcgggggc ggtgaaggcg gcgggggcgc cagcaacagc agcagcagca gcagcacctt 540
caacctcag gcggacacgg gcgagcagcc ctacgagcac ctgaccgcag agtcttttcc 600
tgacatctct ctgaacaacg agaaggtgct ggtggagacc agttacccca gccaaaccac 660
tcgactgcct cccatcacct atactggcgc cttttccctg gagcctgcac ccaacagtgg 720
caacaccttg tggcccgagc cctcttcag cttggctagt ggcctagtga gcatgaccaa 780
cccaccggcc tcctcgctct cagcaccatc tcacgaggcc tcctccgctt ccgcctccca 840
gagccacacc ctgagctgcg cagtgcctac caacgacagc agtcccatth actcagcggc 900
accacacctt cccacgcgca acactgacat tttccctgag ccacaaagcc aggccttccc 960
gggtcgccga gggacagcgc tcacgtaccc gcctcctgcc taccctgccc ccaagggtgg 1020
cttcagggtt cccatgatcc ccgactacct gtttccacag cagcaggggg atctgggcct 1080
gggcacccca gaccagaagc ccttccaggg cctggagagc cgcacccagc agccttcgct 1140
aaccctcttg tctactatta aggcctttgc cactcagtcg ggctcccagg acctgaagge 1200
cctcaatacc agctaccagt cccagctcat caaacccagc cgcattgcgc agtaccocaa 1260
ccggcccgag aagacgcccc cccacgaacg cccttacgct tgcccagtg agtctgtga 1320
tcgcgcgttc tcccgctccg acgagctcac ccgccacatc cgcattccca caggccagaa 1380
gcccttcagc tgccgcatct gcatgcgcaa cttcagcgcc agcgaccacc tcaccaccca 1440
catccgcacc cacacaggcg aaaagccctt cgctcgagc atctgtggaa gaaagtgtgc 1500
caggagcgat gaacgcaaga ggcataccaa gatccacttg cggcagaagg acaagaaagc 1560
agacaaaagt gttgtggcct ctteggccac ctctctcttc tcttctacc cgtcccgggt 1620
tgctacctct taccgctccc cggttactac ctcttatcca tccccggcca ccacctcata 1680
ccatccccct gtgcaccctt ccttctctc tcccggtccc tcgacctacc catccctgt 1740
gcacagtggc ttcccctccc cgtcggtggc caccacgtac tctctgttc cccctgttt 1800
cccgcccagc gtcagcagct tcccttctc agctgtcacc aactccttca gcgcctccac 1860
agggctttcg gacatgacag caaccttttc tcccaggaca attgaaattt gctaaagggg 1920
aaggggaaaag aaagggaaaa gggagaaaaa gaaacacaag agacttaag gacaggagga 1980
ggagatggcc ataggagagg aggggtctct ttaggtcaga tggagggtct cagagccaag 2040
tcctccctct ctactggagt ggaagggtct tggccaaca atcctttctg cccactccc 2100
cttccccaat tactattccc tttgacttca gctgcctgaa acagccatgt ccaagtctt 2160
cacctctatc caaagaactt gatttgcag gattttggat aaatcatttc agtatcatct 2220
ccatcatatg cctgaccctt tgctcccttc aatcgagtgg aatcgagtgg gcaaaatggg 2280
gtttgggccc ctacagagccc tgccctgcac ccttgtacag tgtctgtgccc atggatttcg 2340
tttttcttgg ggtactcttg atgtgaagat aatttgcata ttctattgta ttatttgagg 2400
ttaggtctct acttggggga aaaccacaaa agggaaaagc aagcaaacca atggtgatcc 2460
tctattttgt gatgatgtg tgacaataag ttgaacctt ttttttgaa acagcagtc 2520
cagtattctc agagcatgtg tcagagtgtt gttccgttaa cctttttgta aatactgctt 2580
gaccgtactc tcacatgtgg caaaatatgg tttggttttt cttttttttt tttttgaaag 2640
tgttttttct tcgtcccttt ggtttaaaaa gtttcacgct ttggtgcctt ttgtgtgatg 2700
cgcttgctg atggcttgac atgtgcaatt gtgagggaca tgctcacctc tagccttaag 2760
gggggcaggg agtgatgatt tgggggagc ttggggagca aaataaggaa gagggctgag 2820
ctgagcttcg gttctccaga atgtaagaaa acaaaatcta aaacaaaatc tgaactctca 2880
aaagtctatt tttttaactg aaaatgtaaa ttataaata tattcaggag ttggaatgtt 2940
gtagttacct actgagtagg cggcgatttt tgtatgttat gaacatgcag ttcattatth 3000
tgtgttctta ttttactttg tacttgtgtt tgcttaacaa aagtgactgt ttggcttata 3060
aacacattga atgcgcttta ttgccatgg gatatgtgtt gtatatactt ccaaaaaatt 3120
aaaaagaaaa taaagtagct gcgattgggt atgtgtttcc tgggttaggg gaaggactct 3180
gccttattga gggctgtgag gttttctgaa gacttggcct tttagagatac aaggatcctc 3240
cagccagagt caggccact gtgtgaaact ggagttcgtt atttatgagg actgagtatg 3300
ggnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 3360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 3420

```

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 3480
nnnnnnnnnn nnnnnnnnnn nttcttgata atgggcctgt tctctttcag tctgttgggc 3540
tgaagcttta ccttggttag ctaaagccaa gaaaggcaag agttagggtt gggacatgtg 3600
tggccaaagg cagtgttact ctcttgccat caaatgttgg gccagtcccg tccccacctt 3660
ctactcaggg ttggaaaacc catgatcttg ggaatccctg ccatgtgcag ttagaggagg 3720
taagaagtag gcacaaggcc tttaggggaa cagtaacaat gctggggcgg actcagcctc 3780
tccctcccat tcccaggtc cccagcaact tgagggcac aaagaagcct agacgaggta 3840
aaggccagtt ctcaagccaa gaatccttcc aggaagaaat tcttattact tgccagctgg 3900
aactgccatc cttggcagct tcgtgggaca aaggatagag tgggcagaag cctggcctgg 3960
tgtctaaagt tcccaccgg gccaaatctg tcccattgt gtaggaggcc tgaggttcta 4020
ggttcttttg gcc 4034

```

<210> 162
 <211> 459
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1799017F6

<220>
 <221> unsure
 <222> 6, 239, 367, 452
 <223> a, t, c, g, or other

```

<400> 162
cgaaancact ctgtaatcgt gatgtcatcc gtagaaaaca gtaggcacag cagcccaact 60
gggggcccac gagagcgtct taatggcaca ggaggccctc gtgaatgtaa cagcttcctc 120
aggcatgcca gagaaacccc tgattcctac cgagactctc ctcatagtga aaggtaaaac 180
cgaaggcaaa gctactgcag aggagaaact cagtcagaga atccctgtga gcacctgcng 240
tctcacctca ggaaatctac tctaatacaga ataaggggcg gcagttacct gttctaggag 300
tgctcctagt tgatgaagtc atctctttgt ttgacgggac ttattttctc tgagcttctc 360
tcgtcgcccc agtgactgac caggcaacag actcttaag agctgggatg ctttgatgag 420
gaaagtgca gcacatggag tttccagctc tnggccatg 459

```

<210> 163
 <211> 5873
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 348891.1

```

<400> 163
cggcggactc ggcttgttgt gttgctgcct gagtgccgga gacggtcctg ctgctgccgc 60
agtcctgcca gctgtccgac gatgtcgtcc cacctagtcg agccgcgcgc gccctgcac 120
aacaataaca acaacttcga ggaaaatag cagttctctc ccccgccggc cggcctcaac 180
agttcctggg tggagctacc catgaacagc agcaatggca atgataatgg caatgggaaa 240
aatggggggc tggaacacgt accatcctca tctccatcc acaatggaga catggagaag 300
attcttttgg atgcacaaca tgaatcagga cagagtagtt ccagaggcag ttctcactgt 360
gacagccctt cgccacaaga agatgggcag atcatgtttg atgtggaaat gcacaccagc 420
agggaccata gctctcagtc agaagaagaa gttgtagaag gagagaagga agtcgaggct 480
ttgaagaaaa gtgcggactg ggtatcagac tgggtccagta gaccgaaaa cattccacc 540
aaggagttcc acttcagaca ccctaaacgt tctgtgtctt taagcatgag gaaaagtgga 600
gccatgaaga aagggggtat tttctccgca gaatttctga aggtgttcat tccatctctc 660
ttcctttctc atgttttggc tttggggcta ggcattctata ttggaaagcg actgagcaca 720
ccctctgcca gcacctactg agggaaagga aaagcccctg gaaatgcgtg tgacctgtga 780
agtgggtgat tgtcacagta gcttatttga acttgagacc attgtaagca tgacccaacc 840
taccacctg tttttacata tccaattcca gtaactctca aattcaatat tttattcaaa 900
ctctgttgag gctttttact aaccttatac cctttttggc ctgaagacat tttagaattt 960
cctaacagag tttactgttg tttagaaatt tgcaagggct tcttttccgc aaatgccacc 1020
agcagattat aattttgtca gcaatgctat tatctctaata tagtgccacc agactagacc 1080
tgtatcattc atggtataaa ttttactctt gcaacataac taccatctct ctcttaaac 1140
gagatcaggt tagcaaatga tgtaaaagaa gctttattgt ctagttgttt tttttccccc 1200
aagacaaagg caagtttccc taagtttgag ttgatagtta ttaaaaaaga aacaaaacaa 1260

```

aaaaaaaaagg	caaggcacaa	cáaaaaaata	tcttggggcaa	taaaaaaaat	atttttaaacc	1320
agcttttgagg	ccactttttt	gtctaagcct	cctaataagcg	tctttttaatt	tataggaggc	1380
aaactgtata	aatgatagg	atgaaataga	ataagaagta	aaatacatca	gcagattttc	1440
atactagtat	gttgtaatgc	tgtcttttct	atgggtgtaga	atctttcttt	ctgataagga	1500
acgtctcagg	cttagaaata	tatgaaattg	ctttttgaga	tttttgctgt	tgtgtttgat	1560
attttttacg	ataattagct	gcatgtgaat	ttttcatgac	cttctttaca	ttttttat	1620
tttatttctt	tatttttttt	tctctaagaa	gaggcttttg	aatgagttcc	aatttgtgat	1680
gtaataacag	gcttcttggt	ttaggaagca	tcacctatac	tctgaagcct	ttaaactctg	1740
aagagaattg	tttcagagtt	attccaagca	cttgtgcaac	ttggaaaaaac	agacttgggt	1800
tgtgggaaca	gttgacagcg	ttctgaaaag	atgccatttg	tttcttctgt	atctctcact	1860
gaataatggt	tactgtacag	totttcccaag	gtgatttcctg	cgactgcagg	cactgggtcat	1920
tttctcatgt	agctgtcttt	tcagttatgg	taaaactctta	aagttcagaa	cactcaacag	1980
attccttcag	tgatatactt	gttcgttcat	ttctaataatg	tgaagcttta	ggaccaaatt	2040
gttagaaagc	atcaggatga	ccagttatct	cgagtagatt	ttcttggtat	tcagaacatc	2100
tagcatgact	ctgaaggata	ccacatgttt	tatatataaa	taattactgt	ttatgatata	2160
gacattgata	tgactat	agagaaccgt	tgtaattttt	aaaactagca	atctataaag	2220
tgacacaggt	caaacatgaat	aaaaacacta	tgacagacag	gtttgccagt	ttgcagaaac	2280
taactctttt	ctcacatcaa	catttgtaaa	attgatgtgt	tatagtggaa	aataacatat	2340
agattaaaca	aaatttttat	cttttttcaa	gaatatagct	ggctatcttt	aagaaagatg	2400
atataccta	gttttgaaag	taattttctt	ttttctttct	agcatttgat	gtctaaataa	2460
ttttggacat	ctttttctta	gacctgtttt	ctgtcttact	cttaaacctg	gtaacacttg	2520
atttgccttc	tataacctat	ttatttcaag	tgttcatatt	tgaatttctt	tgggaagaaa	2580
gtaaatctga	tggctcactg	atttttgaaa	agcctgaata	aaattggaaa	gactggaaag	2640
ttaggagaac	tgactagcta	aactgctaca	gtatgcaatt	tctattacaa	ttggtattac	2700
aggggggaaa	agtaaaatta	cactttacct	gaaagtgact	tcttacagct	agtgcattgt	2760
gctctttcca	agtttcagcg	cagttctatc	agtggtgcca	ctgaaactgg	gtatatattt	2820
gatttctttc	agcgttaaaa	agaaacatag	tgttgccctt	tttcttaag	catcagtga	2880
attatggaaa	attacttaaa	acgtgaatac	atcatcacag	tagaatttat	tatgagagca	2940
tgtagtatgt	atctgtagcc	ctaacacatg	ggatgaacgt	tttactgcta	caccagatt	3000
tgtgtgaag	gaaaacattg	tgttttgaa	aggagaattc	aacaattaat	agttgaaatt	3060
gtgaggttaa	tgtttaaaaa	gctttacacc	tgtttacaat	ttggggacaa	aaaggcaggc	3120
ttcatttttc	atatgtttga	tgaaaactgg	ctcaagatgt	ttgtaaatag	aatcaagagc	3180
aaaactgcac	aaacttgcac	attggaaagt	gcaacaagtt	cccgtgattg	cagtaaaaaat	3240
atttactatt	ctaaaaaaat	gagaattgaa	gacttagcca	gtcagataag	ttttttcatg	3300
aaccgcttgt	ggaatttaatt	ggaatttaact	gagccaaagt	gattatgcat	tcttcatcta	3360
ttttagttag	cactttgtat	cggtatatac	agtttacaat	acatgtataa	cttgtagcta	3420
taaacatttt	ggcctgttta	aatatttgta	catatctgag	agagggagg	ggggccctgg	3480
ccacagcaaa	agtgcagacc	tctttcttgg	gtgaggtaa	aaaatgtccc	ccaccccttt	3540
ttaggtctga	ctccttatta	agtggcttcc	ctcaataaaa	tgatgagcat	caaccctttc	3600
ccaccaggg	tgccgaggg	agagggagga	gcaagtggat	gaagtgctct	gaaaaggata	3660
gtgcagcggc	tctagccacc	gtgcgtcctc	tgccctggct	ctgaagggcc	tgaccctggg	3720
ctgcaccccc	ttgttgggga	tggaaagacca	ttcagtactc	agccctacac	cagggcatct	3780
accaggaag	ataggagac	agagtgtgaa	aggggctgtg	tcaccctgtc	aggtcacgaa	3840
caggaggtgg	caatggatgc	agtgcacac	cagtgaggagc	tgctggctgc	cccttgagc	3900
ccactcccca	aactggctac	ccaggcatcc	aggcattctg	gccctggagc	tcaggggaggc	3960
agccctgaga	gtcggagcag	ggaaccacag	gcctagctgg	ccctgccagg	gggataccca	4020
caacagcctg	acatggcgct	caattcccac	acgccagctc	aaggctcctg	tccatgcagc	4080
tcaatgttac	ttgtgtgtgc	atgtcctgtg	tagaggggaa	ggctgcagg	gggcaactgt	4140
gtgccaccca	cccaggggtt	cagggcatgc	aggggacctt	aagcctagta	tacgagccaa	4200
gaccaaaaag	ggttaaaggc	tctgtctccc	ctccctcccc	ttctcccaac	atgccccgcc	4260
ctccttgggc	actagaaagt	tttgcatga	atagcacggg	agccatcctc	ttcatactcc	4320
tttttggaca	cccacatctt	cttaaaagt	tcagcgagg	ccaggatgga	gccgccaatc	4380
catgtggagt	acagccgttc	ctgcggggct	gagatcttga	ttttgatata	ctttggggca	4440
agcttcttca	cttcaactgag	taatcgggtc	ccgaagcctt	tgaaaagcgt	tgagccacct	4500
gagagcacga	tggtggcgaa	cagcgtccgg	cgcagggtcca	tgtcggactt	gtgtatggcg	4560
aaggccacca	cctcatggag	cccctcactc	tcattcccga	caagggtccg	ctggaacagc	4620
agctcggggg	cccgaatcgc	tgaggcccc	acatcaagcg	tgctgcctgc	tggcaacgtg	4680
tactgcacct	tctccgtctc	cagagcctca	tccttctgtg	ggttgatgga	caggtagcac	4740
gctcgtctt	tgattgtccg	gacaacctca	aactcagccg	aggtatggaa	gtcaaccctt	4800
tccttgcgca	gcatgagtcg	gaggtagcgg	gagacgtcgc	ggccggcaat	gtccaccgcc	4860
atgatggagt	gaggtatggc	aaagccctca	tagatgggca	cagcatgagt	gaccccgctc	4920
cctgagtcta	gaaccactcc	tgtcgtgcgt	cctgttgcgt	acagactgag	cacagcctgc	4980
atggagatga	acagggccgg	cacgttgaag	gtctcaaaga	acacctctgc	cgccttctcc	5040
cggttcttac	tcgggttgag	cggggcctcc	gtgaggagca	caggatgctc	ctccgagaag	5100
gtctcagct	gatccttggg	gtagacgtac	tggcagatgc	gttccatgtc	gttccagtct	5160
cgcaccacgc	cgtgctccat	ggggtagcgg	atgggtcagca	gcccccggtg	ctcctctgct	5220
tttggctccga	tgaagaggtc	cccctccagg	gtctccagcca	tcacccgcat	gtgcttcggc	5280

cgccccacac	tgtaggacg	gataacgtca	gcaaggtggg	cagggagcat	ggcagagctt	5340
gtgtccagaa	aaaccgaaat	ccaaccatag	tcgcccagag	ggtacctggc	ctccaaacac	5400
caggatgtgg	ctggggggca	caggttggaa	ctggggccta	tggggttcgg	ggctagagag	5460
ggggcctagg	caggacgaga	agctcagggg	cagaaggcac	ggtcagcaga	gacagctgca	5520
tgtctgagcg	ccagaaccca	gcccctccacg	gcccagccct	tgcaaggggt	cggcttccctg	5580
cagccacagt	gactcagccc	acgtctcctga	cttcgggtggg	gcagggctgc	cgtcaccatc	5640
cacagactga	gggaggacaa	ccccaggaag	ctgggtcggg	gctcccttgt	gcaccctgct	5700
ctcactcagt	caagcgccct	accccactgc	cagcgcttct	ggatcagaga	ttcagttctt	5760
ggaaactata	ggatctgatg	agctaccact	aaaggcaaaag	gaacctctaa	ttatacccat	5820
gcagtccagc	aggaatgctg	aagctcgaca	aggcgcacca	tgctagctct	gtc	5873

<210> 164

<211> 3370

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte.ID No: 903956.15

<400> 164

ggcgcttggg	ggccactggc	ggccgaggtg	gaggcagttg	cgcttgagtt	ggtcgggggc	60
agcggcagat	ttgaggctta	agcaacttct	tcgggggaag	agtgccagtg	cagccactgt	120
tacaattcaa	gatcttgatc	tatatccata	gattggaata	ttggtggggc	agcaatcctc	180
agacgcctca	cttaggacaa	gctgtaaaaa	ttaaaatgaa	caaattacgg	caaagtttta	240
ggagaaaaga	ggatgtttat	gttccagagg	ccagtcgtcc	acatcagttg	cagacagatg	300
aagaagcgct	tcgcaccgga	aaatgtagct	tcgggttaa	gtaccttggc	catgtagaag	360
ttgatgaatc	aagagggaatg	cacatctgtg	aagatgctgt	aaaaagattg	aaagctactg	420
gaaagaaagc	agttaaagca	gttctgtggg	tctcagcaga	tggactcaga	gttgtggatg	480
aaaaaactaa	ggacctcata	gttgaccaga	cgatagagaa	agtttctttc	tgtgccccag	540
acaggaaact	tgatagagcc	ttttcttaca	tatgccgtga	tggcaccact	cgtcgctgga	600
tctgtcactg	cttcatggct	gtcaaggaca	cagggtgaaag	gttgagccat	gcagtaggct	660
gtgcttttgc	agcctgttta	gagcgcaagc	agaagcgggg	gaagggaatg	ggagtgaactg	720
ctacttttga	tgctagtcgg	accactttta	caagagaagg	atcattccgt	gtcacaacag	780
ccactgaaca	agcagaaaga	gaggagatca	tgaaacaaat	gcaagatgcc	aagaaagctg	840
aaacagataa	gatagtcggt	ggttcatcag	ttgcccttgg	caacactgcc	ccatccccat	900
cctctcccac	ctctcctact	tctgatgcc	cgacctctct	ggagatgaac	aatcctcatg	960
ccatcccacg	ccggcatgct	ccaattgaac	agcttgctcg	ccaaggctct	ttccgaggtt	1020
ttcctgctct	tagccagaag	atgtcaccct	ttaaacgcca	actatcccta	cgcatcaatg	1080
agttgccttc	cactatgcag	aggaagactg	atttccccat	taaaaatgca	gtgccagaag	1140
tagaagggga	ggcagagagc	atcagctccc	tgtgctcaca	gatcaccaat	gccttcagca	1200
cacctgagga	ccccttctca	tctgctccga	tgaccaaacc	agtgcagctg	gtggcaccac	1260
aatctcctac	cttccaaggg	accgagtggg	gtcaatcttc	tggtgctgcc	tctccaggte	1320
tcttccagct	cggtcataga	cgtactccct	ctgaggccga	ccgatgggta	gaagaggtgt	1380
ctaagagcgt	ccgggctcag	cagccccagg	cctcagctgc	tctctgcag	ccagttctcc	1440
agcctctctc	accactgccc	atctcccagc	cagcatcacc	tttccaaggg	aatgcattcc	1500
tcacctctca	gctctgtgcca	gtgggtgtgg	tcccagccct	gcaaccagcc	tttgtccctg	1560
cccagtccta	tctgtggccc	aatgggaatgc	ccatccagc	ccctaattgtg	cctgtggtgg	1620
gcatcactcc	ctcccagatg	gtggccaacg	tatttggcac	tgcaaggccac	cctcaggctg	1680
cccatcccac	tcagtcaccc	agcctgggtca	ggcagcagac	attccctcac	tacgaggcaa	1740
gcagtgtctac	caccagtcctc	ttctttaagc	ctcctgtctca	gcacctcaac	ggttctgcag	1800
ctttcaatgg	tgtagatgat	ggcaggttgg	cctcagcaga	caggcataca	gaggttctca	1860
caggcacctg	cccagtggtat	ccttttgaag	cccagtgggc	tgcattagaa	aataagtcca	1920
agcagcgtac	taatccctcc	cctaccaacc	ctttctccag	tgacttacag	aagacgtttg	1980
aaattgaact	ttaagcaatc	attatggcta	tgtatcttgt	ccataccaga	cagggagcag	2040
ggggtagcgg	tcaaaggagc	aaaacagact	ttgtgtcctg	attagtactc	ttttacttaa	2100
tccc aaagggt	cccaagggaac	aagtcaggcc	ccagagtact	gtgaggggtg	atthttgaaag	2160
acatgggaaa	aagcattcct	agagaaaagc	tgcccttgcaa	ttaggctaaa	gaagtcaagg	2220
aaatgttgct	ttctgtactc	cctcttccct	taccccttta	caaactctctg	gcaacagaga	2280
ggcaaagtat	ctgaacaaga	atctatatct	caagcacatt	tactgaaatg	taaaacacaa	2340
caggaaagcaa	agcaatctcc	ctttgttttt	caggccattc	acctgcctcc	tgtcagtagt	2400
ggcctgtatt	agagatcaag	aagagtgggt	tgtgtctcagg	ctggggaaaca	gagaggcagc	2460
ctatgctgcc	agaattccca	ggagggcata	tcagcaactg	cccagcagag	ctatatthttg	2520
ggggagaagt	tgagcttcca	tttttgagtaa	cagaataaat	attatatata	tcaaaagcca	2580
aaatctttat	ttttatgcct	ttagaatat	ttaaatagtt	ctcagatatt	aagaagtthgt	2640
atgagttgta	agtaaatctg	ccaaaggtaa	aggggctagt	tgtaagaaat	tgtacataag	2700
attgattttat	cattgatgcc	tactgaaata	aaaagaggaa	aggctggaag	ctgcagacag	2760

gacccctagc	ttgttttctg	tcagtcattc	attgtaagta	gcacattgca	acaacaatca	2820
tgcttatgac	caatacagtc	actaggttgt	agtttttttt	aaataaagga	aaagcagtat	2880
tgctcctggt	ttaaaccctat	gatggaattc	taattgtcatt	attttaatgg	aatcaatcga	2940
aatatgctct	atagagaata	tatcttttat	atattgtctgc	agtttcctta	tggttaatctt	3000
ttaacactaa	ggtaacatga	cataatcata	ccatagaagg	gaacacaggt	taccatattg	3060
gtttgtaata	tgggtctctg	tgggttttgt	tttatccttt	aaattttgtt	cccatgagtt	3120
ttgtggggat	ggggattctg	gtttttattag	ctttgtgtgt	gtcctcttcc	cccaaaccoc	3180
cttttggtga	gaacatcccc	ttgacagttg	cagcctcttg	acctcggata	acaataagag	3240
agctcatctc	atcttttactt	ttgaacgttg	gccttacaat	caaattgtaag	ttatatatat	3300
ttgtactgat	gaaaattttat	aatctgcttt	aacaaaaata	aatgttcattg	gtagaaaaaa	3360
aaaaaaaaagg						3370

<210> 165
 <211> 980
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 235184.1

<400> 165						
aaaaaaggag	cggggggtgcg	cgggagaacac	aaagtaaaac	ttctgctggt	cccagtcctg	60
cagcccccagc	ccagccgtcc	cccgcggggcg	tggcaggtcc	tgagtcaggg	gcctgtccgt	120
ggccagcatc	cctggctggg	cgattgagca	gcgggaagct	gcttggaccc	agtctcaaac	180
ttaaccctca	tctagcacc	gggcaggcct	cctgggttgc	agggacttga	gaaaaggcag	240
agttctcagg	tcctaggaac	ctggggcacg	ctggcgtgac	aagcgtccc	gagaaagcca	300
agccctcggg	gagctgggga	ccgcagcagg	gctgcagtca	catcctgcgc	gggtgggagg	360
cgggccaggc	cttcagttgt	ttcgggacgc	gccagagctc	gccgctcttc	cagcgggtcc	420
gctgccagag	ctagcctgag	cccgggttctg	gggcgaaaat	gcctgccctt	cacatcgaa	480
atttgcagag	gaaggaaaaa	ctgaaaaatgg	aagttgagca	gcttcgcaaa	gaagtgaagt	540
tgcagagaca	acaagtgtct	aaatgttctg	aagaaataaa	gaactatatt	gaagaacggt	600
ctggagagga	tcctctagta	aagggaattc	cagaagacaa	gaacccttt	aaagaaaaag	660
gcagctgtgt	tatttccata	ataacttggg	agaaactgca	tcctaagtgg	aagaactagt	720
ttgttttagt	tttcccagat	aaaaccaaca	tgctttttta	ggaagggaag	atgaaattaa	780
aaggagactt	tcttaagcac	catatagata	gggttatgta	taaaagcata	tgtgctactc	840
atctttgctc	actatgcagt	cttttttaag	agagcagaga	gtatcagatg	tacaattatg	900
gaaataagaa	cattacttga	gcattgacact	tcttttcagta	tattgcttga	tgcttcaaat	960
aaagttttgt	cttgggaaaa					980

<210> 166
 <211> 4527
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 330948.3

<400> 166						
ctcggcgcgc	ctggaccctt	gcccctctct	gggtggagaa	gctcccggcc	gcttcccggg	60
ttcactcctt	ctcagccttg	gctcccagcc	cctctctcct	tttctgggac	tggctctcac	120
ccccttcggg	ccccttcctt	tagctcaggc	tccttaccoc	ttccttttagc	ccacagccca	180
gagtcaccagc	tcctcagtc	ctttcctcag	ccaaaggctc	cagccttctc	tcttctcttc	240
ctttgcaacta	tccttatcct	gccccttctc	ctatccctag	ggctcagttt	cccacatccg	300
tcctcccttc	tcctcaggcc	ggagttccag	acctttttggt	ctcctttcgt	ggtcgttctc	360
gggtccttgc	cccctttccc	cacttttgag	ttccagattg	caaaccagc	ctccctccac	420
ccccagaaaa	ttgcttccat	ggaaatgcct	ctctaaaaca	tgaacttttc	ctagagacta	480
cgccagtcctc	tcttcccact	tgctgaccct	ttgctaccta	tgtgcccggt	tttactctca	540
tttgggtaag	gtcagagctg	gctctggaag	cagcaccatg	gttctgcggg	ctggcatctg	600
tggtcctctc	ccacatcgga	tcttcccttc	cttactcgtg	gtggctcgct	tgggtggggt	660
gctgcctggt	ctcaggagcc	atggcctcca	gctcagccca	actgccagca	ccattcgaag	720
ctcagagcca	ccacgagaa	gctcgattgg	ggatgtcacc	accgctccac	cggaggtcac	780
cccagagagc	cgccctgtta	atcattccgt	cactgatcat	ggcatgaagc	cgcgcaaggc	840
ctttccagtc	ctgggcactg	actacacaca	cgtgcgcacc	cccttcgaga	tctccctctg	900
gactcctctg	gcctgcctca	tgaagatagg	tttccatgtg	atccccacta	tctcaagcat	960
cgtcccggag	agctgcctgc	tgatcgtggt	ggggctgctg	gtggggggcc	tgatcaaggg	1020

tgtaggcgag acacccccct tectgcagtc cgacgtcttc ttcctcttcc tgetgccc 1080
catcatcctg gatgcgggct acttctctgc actgcggcag ttcacagaaa acctgggcac 1140
catcctgatc ttgtccgtgg tgggcacgct gtggaacgcc ttcttctctg gcggcctcat 1200
gtacgcggtg tgcttgggtg gcggtgagca gatcaaac atcgccctcc tggacaacct 1260
gctcttcggc agcatcatct cggcgtggga ccccggtggc gttctggctg tctttgagga 1320
aattcacatc aatgagctgc tgcacatcct tgttttggg gagtccttgc tcaatgacgc 1380
cgtcactgtg gtctgtatc acctctttga ggagtttgc aactacgaac acgtgggcat 1440
cgtggacatc ttctcggct tcttgagctt cttcgtgggt gccctgggcg ggggtgctgt 1500
ggcgtgggtc tacgggggtc tgcagcctt cacctccga ttacctccc acatccgggt 1560
catcgagccg ctcttcgtct tctctacag ctacatggcc tacttgtcag ccgagctctt 1620
ccactgtca ggcacatgg cgtcatagc ctacaggagt gtgatgcgc cctatgtgga 1680
ggccaacatc tcccacaagt cccacaccac catcaaac ttctgaaga tgtggagcag 1740
cgtcagcgag accctcatct tcatcttct cggcgtctcc acggtggccg gctcccacca 1800
ctggaactgg acctcgtca tcagcaccct gctcttctgc ctcatcgccc gcgtgctggg 1860
gggtcgtggc ctgacctgg tcatcaacaa gtctcgtatc gtgaagctga ccccaagga 1920
ccagttcatc atcgctatg ggggctcg aggggccatc gccttctctc tgggctacct 1980
cctggacaag aagcactcc ccatgtgtga cctgttctc actgccatca tcaactgtct 2040
cttcttcacc gtcttctgtc agggcatgac cattcggccc ctggtagacc tgttggctgt 2100
gaagaaaaag caagagacga agcgtccat caacgaagag atccacacac agttcctgga 2160
ccactttctg acaggcatcg aagacatctg tggccactac ggtcaccacc actggaagga 2220
caagctcaac cggtttaata agaaatatgt gaagaagtgt ctgatagctg gcgagcgtc 2280
caaggagccc cagctcattg cctcttacc caagatggag atgaagcagg ccatcgagct 2340
gggtggagagc gggggcatgg gcaagatccc ctctgcctgc tccaccgtct ccatgcagaa 2400
catccacccc aagtcctgc cttccgagcg catcctgcca gcaactgtcc aggacaagga 2460
ggaggagatc cgcaaaatcc tgaggaacaa cttgcagaag accaggcagc ggctgcggtc 2520
ctacaacaga cacacgtgg tggcagacc ctacgaggaa gcctggaacc agatgctgtc 2580
ccggaggcag aaggcccgcc agctggagca gaagatcaac aactacctga cgggtgccagc 2640
ccacaagctg gactaccca ccatgtctcg ggcccgcatc ggtcagacc cactggccta 2700
tgagccgaag gaggacctgc ctgtcatcac catcgaccg gcttccccgc agtcacccga 2760
gtctgtggag ctggtgaatg aggagctgaa gggcaaatg ttagggttga gcccggtatc 2820
ctgcaagggt ggctgaggag gacgaggacg acgatgggg catcatgatg cggagcaagg 2880
agacttcgtc cccaggaacc gacgatgtct tccccccgc gccagtgac agccccagct 2940
cccagagat acagcgtgc ctcagtacc caggcccaca ccctgagcct ggggagggag 3000
aaccgttctt ccccaagggg cagtaacgcc agggccagca ggcagcgcct gtgcccctca 3060
cagactcttc cccagagca gggcgtctg gggcctccc ttgcccttcc tgaccggat 3120
tggccctgcc cctcccccta ccgcatggca gctgggccc cagccccac cccagcacag 3180
ctctccccct gcttgcctcc cgggaagcat cctccccacc agagctgcct ccccaatcca 3240
tttggcagaa ctgctggggc tgggtaggcc ggcctgccc ctccctagat ccaggcttcc 3300
tcccggacct cctgtagggc ctcggagct cctcctctg cctcatcctt cctcctcatt 3360
cagaccaatc ttagtttcta accaaagagt ctctggctca gctgtggtcc caccagggaa 3420
gggagggagc tgaggcctcc cttgagtagg cctgtcttta tcaggggaca aaccaggggt 3480
accaggcaca tggctggggg agggactgct gaccaccaa ggtctcacac tctcctgccc 3540
agctctgtca cccctggcac caccacacct gctccttact agagctgcg gctgagggca 3600
tctctgagtg tctctgcctg gagcaggggt ggtttctacg gtgacagtga cgtgactcag 3660
agcttttcca actgtgtcc caccgggacc actgggcccc tcaggggaag ctgctagggg 3720
aaggactggc cgtggctcca gaatgtgtg cctttttaa ttttgtttgt tcacactcct 3780
atataatgatt gtttgacag agggcgtccc tggttttaa acattttgaa aaccctggc 3840
tgaacagtgc tctgctcta actccctct cactaccag aattaccctt cctcatctgt 3900
gcctgtctgt ccaaccctc cccacgtct ctctgcctgc tgggctctta actgttgctc 3960
gaagactgtg acatcagaag taactccac tctaataca gagtctctcc agcctcacag 4020
atgtggcct cttggcacct gcctagctct tgggctgac ctccagtcct gctggcctgc 4080
tcttacttcc cccacctgg gtttggcccc tggaaacctt ccttgtgtg taccacacc 4140
tgctgctgt ggagccatt gtggaggcgg tgggggggag aaggcctccc ctgaggatcc 4200
cctgtcccc cgggctggtg gattgggcag aatcctggg cccagagac ctttggccc 4260
acacactcct tcccctgtc cctggggcac tccccagga ttgtgcaata gtcagagtgt 4320
ccctttttgc aggggactgg gccatgggtc ctcggccat ctgtccatcc tctctccat 4380
gcaagtgtc tttgggcagg agtcaccatg caagggtgac atcgacaacc acgtaccaag 4440
ccaccgcagc tgetgcact ctgctgctg tacagaagaa actgaatctt tttcatattc 4500
taataaatca atgtgagttt ttaatag 4527

<210> 167
<211> 7232
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<223> Incyte ID No: 994057.1

<220>

<221> unsure

<222> 5602, 5610, 7108

<223> a, t, c, g, or other

<400> 167

cccagctgg	cctgcgagtt	cagggctcct	gccgtctctc	aggagcaacc	tctactccgg	60
acgcacaggc	attccccg	ccccccagc	cctgcgcccc	ctcgccaccg	ctccccggcg	120
ccgcgctccg	gtacacacag	gatccctgct	gggcaccaac	agctccacca	tggggctggc	180
ctggggacta	ggcgtcctgt	tccctgatgca	tgtgtgtggc	accaaccgca	ttccagagtc	240
tggcggagac	aacagcgtgt	ttgacatctt	tgaactcacc	ggggccgccc	gcaaggggtc	300
tggcggcgga	ctggcgaagg	gccccgaccc	ttccagccca	gctttccgca	tcgaggatgc	360
caacctgac	ccccctgtgc	ctgatgacaa	gttccaagac	ctggtggatg	ctgtgcgggc	420
agaaaaggg	ttcctccttc	tggcatccct	gaggcagatg	aagaagaccc	ggggcacgct	480
gctggccctg	gagcggaaag	accactctgg	ccaggctctc	agcgtgggtg	ccaatggcaa	540
ggcgggcacc	ctggacctca	gacctgacct	ccaaggaaag	cagcacgtgg	tgtctgtgga	600
agaagctctc	ctggcaaccg	gccagtggaa	gagcatcacc	ctgtttgtgc	aggaagacag	660
ggccagctg	tacatcgact	gtgaaaagat	ggagaatgct	gagttggacg	tccccatcca	720
aagcgtcttc	accagagacc	tggccagcat	cgccagactc	cgcacgcaa	agggggcggt	780
caatgcacac	ttccagggg	tgtgcagaa	tgtgaggttt	gtctttggaa	ccacaccaga	840
agacatcctc	aggaacaaag	gctgctccag	ctctaccagt	gtcctcctca	cccttgacaa	900
caacgtgggtg	aatggttcca	gccctgccat	ccgcactaac	tacattggcc	acaagacaaa	960
ggacttgcaa	gccatctcgc	gcatctcctg	tgatgagctg	tccagcatgg	tcctggaact	1020
caggggctcg	cgcaccattg	tgaccacgct	gcaggacagc	atccgcaaag	tgactgaaga	1080
gaacaaagag	tggccaatg	agctgaggcg	gcctccccta	tgctatcaca	acggagttca	1140
gtacagaaat	aacgaggaat	ggactgttga	tagctgcact	gagtgctact	gtcagaactc	1200
agttaccatc	tgcaaaaagg	tgtcctgccc	catcatgccc	tgtccaatg	ccacagttcc	1260
tgatggagaa	tgtgtcctc	gctgttggcc	cagcgactct	gcggacgatg	gctggtctcc	1320
atggtccgag	tggacctcct	gttctacag	ctgtggcaat	ggaattcagc	agcgcgcccg	1380
ctcctcgcat	acgtcaaca	accgatgtga	gggtcctcgc	gtccagacac	ggacctgcca	1440
cattcaggag	tgtgacaaga	gatttaaaca	ggatgggtgg	tggagccact	ggtccccgtg	1500
gtcatcttgt	tctgtgacat	gtggtgatgg	tgtgatcaca	aggatccggc	tctgcaactc	1560
tcccagcccc	cagatgaacg	tgaaaccctg	tgaaggcgaa	gcgcgggaga	ccaaagctct	1620
caagaaagac	gcctgcccc	tcaatggagg	ctggggctct	tgggtaccat	gggacatctg	1680
ttctgtcacc	tgtggaggag	gggtacagaa	acgtagtctg	ctctgcaaca	acccacacc	1740
ccagtttgga	ggcaaggact	gcgttgggtg	tgtaacagaa	aaccagatct	gcaacaagca	1800
ggacttcctc	aatgatggat	gcctgtccaa	ttctgctttt	gccggcggtg	agtgtactag	1860
ctaccctgat	ggcagctgga	aatgtgggtc	tgttccccct	ggttacagtg	gaaatggcat	1920
ccagtgcaca	gatgttgatg	agtgcacaga	agtgcctgat	gcctgcttca	accacaatgg	1980
agagcacccg	tgtgagaaca	cggaccccg	ctacaactgc	ctgcccctgc	ccccacgctt	2040
caccggctca	cagcccttcg	gccaggggtg	cgaacatgcc	acggccaaca	aacaggtgtg	2100
caagccccgt	aacccctgca	cggatgggac	ccacgactgc	aacaagaacg	ccaagtgcac	2160
ctacctgggc	cactatagcg	accccatgta	ccgctgcgag	tgcaagcctg	gctacgctgg	2220
caatggcacc	atctcggggg	aggacacaga	cctggatggc	tggcccaatg	agaacctggg	2280
gtgcgtggcc	aatgcgactt	accactgcaa	aaaggataat	tgcccccaac	ttcccaactc	2340
agggcaggaa	aggatggaat	gggtgatgcc	tgtgatgac	tgtgatgatg	acgatgacaa	2400
tgataaaatt	ccagatgaca	gggacaactg	tccattccat	tacaaccacg	ctcagtatga	2460
ctatgacaga	gatgatgtgg	gagaccgctg	tgacaactgt	ccctacaacc	acaaccacga	2520
tcaggcagac	acagacaaca	atgggggaag	agacgcctgt	gctgcagaca	ttgatggaga	2580
cggtatccct	aatgaacggg	acaactgcca	gtacgtctac	aatgtggacc	agagagacac	2640
tgatattgat	ggggttgtag	atcagtgtga	caattgcccc	ttggaacaca	atccggatca	2700
gctggactct	gactcagacc	gcatttgaga	tacctgtgac	aacaatcagg	atattgatga	2760
agatggccac	cagaacaatc	tggacaactg	tccttatgtg	cccaatgcca	accaggtcga	2820
ccatgacaaa	gatggcaagg	gagatgctg	tgaccacgat	gatgacaacg	atggcattcc	2880
tgatgacaag	gacaactgca	gactcgtgcc	caatcccag	cagaaggact	ctgacggcga	2940
tggctcagggt	gatgcctgca	aagatgattt	tgaccatgac	agtgtgccag	acatcgatga	3000
catctgtcct	gagaatgttg	acatcagtga	gaccgacttc	cgccgattcc	agatgattcc	3060
tctggacccc	aaagggacat	cccaaatgta	ccctaactgg	gttgtagcgc	atcagggtaa	3120
agaactcgtc	cagactgtca	actgtgatcc	tggactcgct	gtagggttatg	atgagtttaa	3180
tgtgtgggac	ttcagtggca	ccttcttcat	caacaccgaa	agggacgatg	actatgctgg	3240
atgtgtcttt	ggctaccagt	ccagcagccg	cttttatgtt	gtgatgtgga	agcaagtcac	3300
ccagtccctac	tgggacacca	accccacgag	ggctcaggga	tactcggggc	tttctgtgaa	3360
agttgtaaac	tcaccacacg	ggcctggcga	gcacctgcgg	aacgcctctg	ggcacacagg	3420
aaacaccctt	ggccactgtg	gcacctgtgt	gcgatgccct	cgtcacatag	gctggaaaga	3480
tttcaccgcc	tacagatggc	gtctcagcca	caggccaaag	acgggtttca	ttagagtggg	3540

gatgtatgaa	gggaagaaaa	tcatggctga	ctcaggaccc	atctatgata	aaacctatgc	3600
tggttgtaga	ctaggggtgt	ttgtcttctc	tcaagaaatg	gtgttcttct	ctgacctgaa	3660
atacgaatgt	agagatccct	aatcatcaaa	ttgttgattg	aaagactgat	cataaaccaa	3720
tgctgggtatt	gcaccttctg	gaactatggg	cttgagaaaa	ccccaggat	cacttctcct	3780
tggtcttctt	cttttctgtg	cttgcatcag	tgtggactcc	tagaacgtgc	gacctgcctc	3840
aagaaaatgc	agtttttcaa	aacagactca	gcattcagcc	tccaatgaat	aagacatctt	3900
ccaagcatat	aaacaattgc	tttggtttcc	ttttgaaaaa	gcactactt	gcttcagttg	3960
ggaagggtgc	cattccactc	tgcctttgtc	acagagcagg	gtgctattgt	gaggccatct	4020
ctgagcagtg	gactcaaaag	cattttcagg	catgtcagag	aaggaggagc	tcactagaat	4080
tagcaaacaa	aaccaccctg	acatcctcct	tcaggaacac	ggggagcaga	ggccaaagca	4140
ctaaggggag	ggcgcatacc	cgagacgatt	gtatgaagaa	aatatggagg	aactgtttaca	4200
tggtcggtag	taagtcattt	tcaggggatt	gaaagactat	tgctggattt	catgatgctg	4260
actggcggtta	gctgattaac	ccatgtaaat	aggcacttaa	atagaagcag	gaaagggaga	4320
caaagactgg	cttctggact	tcctccctga	tcctccacct	tactcatcac	ctgcagtggc	4380
cagaattagg	gaatcagaat	caaaccagtg	taaggcagtg	ctggctgcca	ttgcctggtc	4440
acattgaaat	tggtggcttc	attctagatg	tagcttgtgc	agatgtagca	ggaaaaatagg	4500
aaaacctacc	atctcagctg	gcaccagctg	ctcccaaaag	gaggggcagc	cgtgcttata	4560
tttttatggg	tacaatggca	caaaattatt	atcaacctaa	ctaaaacatt	ccttttctct	4620
tttttcctga	attatcatgg	agtttttctaa	ttctctcttt	tggaaatgtag	atttttttta	4680
aatgctttac	gatgtaaaat	atttattttt	tacttattct	ggaagatctg	gctgaaggat	4740
tattcatgga	acaggaagaa	gcgtaaagac	tatccatgtc	atctttgttg	agagtcttcg	4800
tgactgttaag	attgtaaaata	cagattatatt	attaaactctg	ttctgcctgg	aaatttagcg	4860
ttcatacgga	aagtgtttga	gagcaagtag	ttgacattta	tcagcaaatc	tcttgcaaga	4920
acagcacaaag	gaaaatcagt	ctaataagct	gctctgcccc	ttgtgctcag	agtggatggt	4980
atgggattct	ttttttctct	gttttatctt	ttcaagtggg	attagttggg	tatccatttg	5040
caaagtgttt	aaattgcaaa	gaaagccatg	aggtcttcaa	tactgtttta	ccccatccct	5100
tgtgcatatt	tccagggaga	aggaaagcat	atacactttt	ttctttcatt	tttccaaaag	5160
agaaaaaaat	gacaaaaggt	gaaacttaca	tacaaatatt	acctcatttg	ttgtgtgact	5220
gagtaagaa	tttttggtac	aagcggaaag	agtttaagtg	tctaacaac	ttaaagctac	5280
tgtagtgaag	aaaaagtcag	tggtgtacat	agcataaaaa	ctctgcagag	aagtattccc	5340
aataaggaaa	tagcattgaa	atgttaaata	caatttctga	aagttatggt	tttttttcta	5400
tcatctggta	taccattgct	ttatttttat	aaattatttt	ctcattgcca	ttggaataga	5460
tatctcagat	tgtgtagata	tgtctattta	ataattttatc	aggaaatact	gcctgtagag	5520
ttagtatttc	tatttttata	taatgttttc	acactgaatt	gaagaattgt	tggttttttc	5580
ttttttttgt	tttgtttttt	tttttttttn	tttttgcttt	tgacctccca	tttttactat	5640
ttgccaatac	ctttttctag	gaatgtgctt	ttttttgtac	acatttttat	ccatttttaca	5700
ttctaaagca	gtgtaagttg	tatattactg	ttctttatgt	acaaggaaca	acaataaatc	5760
atatggaaat	ttatatattt	acttactgta	tccatgctta	tttgttctct	actggcttta	5820
tgctcatgaag	tatatgcgta	aataccattc	ataaatcaat	atagcatata	caaaaaataa	5880
ttacagtaag	tcatagcaac	attcacagtt	tgtatgtgat	tgagaaagac	tgagttgctc	5940
aggcctaggc	ttagaatttg	ctgcgtttgt	ggaataaaag	aacaaaatga	tacattagcc	6000
tgccatatca	aaaacatata	aaagagaaat	tatccctaag	tcaagggccc	ccataagaat	6060
aaaatttctt	attaatgtca	ttagatgtca	ttgaaatcct	ttcaaagtgc	agtatgaaa	6120
caaagggaaa	aacactgaag	cacacgcaac	ttctcacagc	acattttctg	accacgaat	6180
gatgccttgg	gtgggcaaca	cgattgcatg	ttgtggagac	acttcggaag	taaatgtgga	6240
tgagggagga	gctgtccttg	caatgttgag	ccaagcatta	cagatacctc	ctcttgaga	6300
aggaataata	agttttata	aaaaagaaga	ctaaaaaatg	taaaatttgg	aaggaatcca	6360
taaatgcgtg	tgtgtctaaa	tacaaattat	catgtgaaga	aaaggcccaa	gtgtaccaat	6420
aagcagacct	tgatttttgg	atgggctaata	tatgaatgtg	gaatactgac	cagttaattt	6480
ccagttttta	tgaaaacaga	tcaaagaaga	aattttatga	gtaggttaaa	ggtctggctt	6540
tgaggtctat	taaacactag	aaaggactgg	ctgggtgaga	taaaatcttc	cctgttgatt	6600
ttcactctca	ttctataaat	actcatcttt	ctgagtagcc	atgatcacat	acaaatgtaa	6660
attgccaaat	catttttatag	taccaaggtg	aagaagcagg	aactagaaag	tgttgataat	6720
agctgtggag	ttagggaaac	tgatgtgaag	gaaataatct	tttgaatgg	caaagaatta	6780
aataccatca	ttcattatca	gaagagttca	acgtttgaag	tgctgggaga	taattctaata	6840
tcattcttgg	atagtgaagc	aaaactgatt	gaaaatacca	agataagaca	gaaaaagtga	6900
ctggaaagag	gagcttttct	tccaggcatg	ttccagtttc	accctaagac	tgaccttcaa	6960
ataatcaggt	tgtactgaaa	taaaggactt	gttaaaaaatt	aaaattatgt	catcgagatg	7020
atagcttttt	tcctcctcca	acagtttatt	gtgcatgtgt	tgtgggagag	ctcgagtga	7080
gagcaataaa	ctccaggtct	tataagantg	tacatacaat	aaaggtgggt	ccagcagttt	7140
tttttttct	aaagagtcac	atgtagaaaa	gctccagta	ttagctcct	gaattcatct	7200
ctataaataa	attggtctct	tctctcttct	at			7232

<210> 168
 <211> 3324
 <212> DNA
 <213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 197301.4

<220>
<221> unsure
<222> 254, 378
<223> a, t, c, g, or other

<400> 168

gtgagaattg	taactcaagg	ctgcttacac	ttgagtcgga	ctgtaggcag	gttgcttaag	60
gctgcattgt	cccagcctcc	ccctccaagt	catctgttcc	ttctgattaa	tgacagctct	120
gcattgttct	tggcccttgc	ttcccttggg	aggctgcaga	gtcaccacat	tctgtgccct	180
ttctgtgttg	agcacttttg	gtctgcagga	ggcacatgca	cgtccaggga	ctgcttttca	240
gctcctggac	aggncagggg	cttccttcta	tcagccactc	aactagtgtg	gcctgcaaac	300
aggaaagggc	cacagagggt	gggggggttg	cttagctctc	aggagctgac	agaagatggg	360
aacatgtaca	ggagacantt	ctttcaaate	atctgtgtga	aagcgggtaa	ccctttgggt	420
atttgcaagt	ctagagcttt	agggtgttact	ggtttttaaag	gtgtcagggg	cagctggggc	480
tgcgtaagg	aagggtggcag	aggaaaggag	taggtgaatg	gaacttactc	acatcctaag	540
cccacagggt	gagaacttct	gttcagctcc	ctcaggggtt	tgcgaggctg	cctttgtctt	600
tctagcccc	taaacgggcc	ccccttctct	ctacagggtg	ttcccattaa	acactaccag	660
gacaaaatca	ggccttcat	ccagctgcca	tcgcacagca	acattactgg	cattgtggaa	720
gtgatccttg	gggaaaccaa	ggcctatgtc	ttctttgaga	aggactttgg	ggacatgcac	780
tcctatgtgc	gaagccggaa	gaggctgcgg	gaagaggaag	ccgcccggct	cttcaagcag	840
attgtctccg	ccgtcgccca	ctgccaccag	tcagccatcg	tgtctggggg	cctgaagctt	900
aggaagttcg	tcttctccac	ggaggagaga	accagctta	gactagaaag	tctagaagac	960
acacacataa	tgaaggggga	agatgatgct	ttgtcagaca	aacatggctg	cccagcctac	1020
gtgagccctg	agatcctcaa	caccactggg	acactactcg	gaaaggctgc	ggacgtttgg	1080
agcctggggg	tgatgtctta	cacccttctg	gttggacgat	accccttoca	tgactcagac	1140
ccagtgccc	ttttctccaa	aattcggcgt	ggacagtctt	gcattcctga	gcacatttcc	1200
cccagaagcca	ggtgcctcat	tcgcagcctc	ttgagacggg	agccctccga	gagactcaat	1260
gcccccgaga	tcctactgca	cccctgggtt	gagtccgtct	tggaaaccgg	gtacatcgac	1320
tcagaaatag	gaacttcaga	ccagattggt	ccagagtacc	aggaggacag	tgacattagt	1380
tccttcttct	gctaattccc	aaaacctcag	aaacctcata	attcttaaca	cctggcattt	1440
ccatttctaa	gccctttggc	atggtaccaa	ccagataatg	actgcacatg	actgcacatg	1500
gatgaaagct	gctgaactcg	gcatggcgcc	tccttctctc	tgttgggatg	agtgaactta	1560
ttgatttgag	cagcatatgc	tgtgattggc	tgccttgcaa	atttgtttcc	cttaaggaa	1620
cctcaccaac	tatctctgct	ggatttggga	gttcgcgcat	ttttgtggag	ggcagagtat	1680
ggacaatctta	caccgggtgg	tcaagtgtgt	aaataacttg	agcattcgaa	tgggagaaaa	1740
agcaaatcgc	acaatgacat	atlttgagta	ataaccgtat	ttttcacagg	gtgacaaatt	1800
gggccaataa	atctgccatc	tttgaactca	tccttgggtg	ctagactgct	acggcagctt	1860
ctctgatggg	aaagtctcct	ttttggctta	acactcacc	tttcttcaca	ctcacattta	1920
ccaatgactc	tgctccgttt	ttggagcaga	ctgttttaag	ttgtcagga	gcctgatgga	1980
accaatgaac	gagactcttc	tcgttttctc	gccaaagacct	catctgcact	aatgcctct	2040
ccctgacctt	gacacttccc	cctttagcta	taaaagcact	taccagccga	acgtggaaca	2100
gtatcacaaa	agattccatc	tcaccaacgat	ttcagaactc	tgagctcaga	gagactccag	2160
atlttaaaaa	ataatttgag	tgcttggaaa	ctattagctt	tttaagttcc	ttccaaatat	2220
gttagtacct	accctttact	ttttccccaa	gacctctca	gggtggagca	ttctgtctaa	2280
gagaagaaag	ataaggaggc	tcacccacac	ctctcccaag	agcagacatt	aaacatcttt	2340
gtgctttgaa	gagagtgaat	tttgataggt	cttgtgatcc	tcagactaac	ttccagaatt	2400
atactttaac	ccctcccaga	tatggtccgc	ctttggcatt	gtgtgtacat	ctgcagtttt	2460
gcatgggtgg	ttgttaatat	ttcaaatgtg	tggtttatga	atacgtctgt	ataatcggct	2520
tctggagtga	aacagcaaac	cccaaatctt	caaagttgga	aggaacttta	aaaatcatcc	2580
ggtccaatct	ctttctctct	tctgccacct	ccaaggcag	aaatccctc	ttcagcttct	2640
ttttaggttg	ggaatccagc	ctctgttaga	tatgtccaga	gatggaaact	cactccccta	2700
caaaagatgg	agcttaattg	agaaattgca	actttcatta	aaaaacaaat	tcagatgaaa	2760
tatcagtaac	tgtcttggac	agtgtctgaa	tcagggtggt	aaacgggtaa	acaaaatata	2820
ctgtattttg	agaaatggca	caaaaacagg	cagtcactct	taagggtctat	gcctaggcaa	2880
actactaaca	tgcattgtga	gaatgccgtg	tatacctcac	gtactgtgta	ctttgtacat	2940
atattttacc	ttttatacct	atgttcgatt	ttgttttgtt	ttgttttgtt	ctggctttga	3000
ggctgtgttt	tctgtctgtg	taacctgcgt	taacctgcgt	gtctaaaacc	acgtgaaatg	3060
tgaatgatta	ttggcaatat	taccttgaca	gaatcatggg	actttgagaa	gagggaggag	3120
agaggcctct	gtcgcactaa	cgctctcgtg	gttgctcgac	tgttgtatct	gtgatacatt	3180
atccgactaa	ggactctggg	ctggcagggc	cttctgcggg	gaaagctaga	aacactaggt	3240
tcttctgtga	catagctgta	tatatgtgaa	cagtgaatg	gccgtttctg	actttagtag	3300
aaattttaat	aaacctgggt	tcgt				3324

<210> 169
<211> 2412
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 476016.17

<220>
<221> unsure
<222> 60, 70, 82, 104, 1750, 2165-2228
<223> a, t, c, g, or other

<400> 169
gaggacgaag ccagttctct ttttctggtc tgactggcct ggaaattccc cgagcctgan 60
ccccccan agaaatcccc anccagcgtt tatagggcgc cgcngcggcg ctgcagagcc 120
cacagcagtc cgtgccgccc tcccgcgccg cagcgcccca gcgaggaagc agcgcgcagc 180
ccgcggccca gcgcacccgc agcagcgccc gcagctcgtc cgcgccatgt tccaggcggc 240
cgagcgcccc caggagtggg ccatggaggg ccccgcgac gggctgaaga aggagcggct 300
actggaagac cgccacgaca ggcgcctgga ctccatgaaa gacgaggagt acgagcagat 360
ggtcaaggag ctgcaggaga tccgcctcga gccgcaggag gtgccgcgcg gctcggagcc 420
ctggaagcag cagctcaccg aggacgggga ctcgcttcctg cacttggcca tcatccatga 480
agaaaaggca ctgaccatgg aagtgatccg ccagggtgaag ggagacctgg ccttcctcaa 540
cttcagaac aacctgcagc agactccact ccacttggct gtgatcacca accagccaga 600
aattgctgag gcacttctgg gagctggctg tgatcctgag ctccgagact ttcgaggaaa 660
taccacctca cacttgcct gtgagcaggg ctgctgggcc agcgtggggag tccctgactca 720
gtcctgcacc acccgcgacc tccactccat cctgaaggct accaactaca atggccacac 780
gtgtctacac ttagcctcta tccatggcta cctgggcatc gtggagcttt tgggtgcctt 840
gggtgctgat gtcaatgctc aggagccctg taatggccgg actgcccttc acctcgcagt 900
ggacctgcaa aatcctgacc tgggtgcact cctggtgaag tgtggggctg atgtcaacag 960
agttacctac cagggtctatt ctccctacca gctcacctgg ggccgcccga gcacccggat 1020
acagcagcag ctggggccagc tgacactaga aaaccttcag atgctgccag agagtgagga 1080
tgaggagagc tatgacacag agtcagagtt cacggagttc acagaggacg agctgcccta 1140
tgatgactgt gtgtttggag gccagcgtct gacgttatga gcgcaaagg gctgaaagaa 1200
catggacttg tatatttgta caaaaaaaaa gttttatatt tctaaaaaaaa gaaaaaagaa 1260
gaaaaaattt aaagggtgta cttatatcca cactgcacac tgctggccc aaaacgtctt 1320
attgtggtag gatcagccct cattttgttg cttttgtgaa cttttgttag gggacgagaa 1380
agatcattga aattctgaga aaactctctt taaacctcac ctttgtgggg tttttggaga 1440
aggttatcaa aaatttcatt gaaggaccac attttatatt tattgtgctt cgagtgactg 1500
acccagtggt tatcctgtga catgtaacag ccaggagtgt taagcgttca gtgatgtggg 1560
gtgaaaagtt actacctgtc aaggtttgtg ttacctcct gttaatgggtg tacataatgt 1620
attgttggtg attatttttg tacttttatg atgtatatatt attaaacaga tttttacaaa 1680
tgagttatoc tgatcatttt cttcaggctg ccgtgggccc cgggttctga agttccatcc 1740
tccggcagan gtggaggtgg agcagtgatg gggaggagggt aactcccagc agcttctcac 1800
acctgacacc cagcctccag caaagctttg caggcaccct gggcccagtg tgtgggaggg 1860
aggctgttgc aagggttatag gaaattacca atctcaggct tgggggtggaa gcatgctgtt 1920
tggcctgtgg ttggagacct ctccattgtc attctgtcat cccgttgatt taaacttctt 1980
ggacctaat tgccagttga ggaaattatt ttggccaaga agaatatgct gaattcata 2040
agagctggga aagatctcac taatacagga agttcctaag gacataggct cagaaatggg 2100
actgcactga catttgttag cagatgctca cctactgagc ctcagtttct tcatttatta 2160
gctgnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 2220
nnnnnnntg ctaaagaaaa acaagctgtt acgcaacgtt ctttatgtca taccaggaga 2280
aacaagtcca gagagaatgt cctgtctagg gtcaccttgc aggagaaata ggtggttaac 2340
atatttcata cgtgctcgtt taggggtaaa catcttttaa gagcatccat ctcttaaatc 2400
tatgtgttat tg 2412

<210> 170
<211> 2980
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1098409.1

<400> 170

```

gagcaattga ttaatagctc ggcgagggga ctcactgact gttataataa cactacacca 60
gcaactcctg gcttcccagc agccggaaca cagacaggag agagtcagtg gcaaataagac 120
atthttctta tttcttaaaa aacagcaact tgtttgtctac ttttatttct gttgattttt 180
ttttcttggt gtgtgtgggt gttgttttta agtgtggagg gcaaaaggag ataccatccc 240
aggctcagtc caaccctctt ccaaaacggc ttttttgaca ctccaggtag cgaggagtt 300
gggtctccag gttgtgcgag gagcaaatga tgaccgcaa ggccgtagac aaaatcccag 360
taactctcag tggttttgtg caccagctgt ctgacaacat ctaccgggtg gaggacctcg 420
ccgccacgtc ggtgaccatc tttcccaatg ccgaactggg agggcccttt gaccagatga 480
acggagtggc cggagatggc atgatcaaca ttgacatgac tggagagaag aggtcgttgg 540
atctcccata tcccagcagc tttgtctccg tctctgcacc tagaaaccag accttcaatt 600
acatgggcaa gttctccatt gacctcagt accctgggtgc cagctgtctac ccagaaggca 660
taatcaatat tgtgagtga ggcattcttg aaggggtcac ttcccagct tcaaccacag 720
cctcatccag cgtcacctct gcctccccc acccactggc cacaggaccc ctgggtgtgt 780
gcaccatgtc ccagaccag cctgacctgg accacctgta ctctccgcca ccgectctct 840
ctccttatte tggctgtgca ggagacctct accaggaccc ttctgcgttc ctgtcagcag 900
ccaccacctc cactctctcc tctctggcct acccaccacc tccttctat ccatcccca 960
agccagccac ggaccaggt ctcttcccaa tgatcccaga ctatcctgga ttctttccat 1020
ctcagtgcca gatgacctc catggtagag ctggcccaga ccgtaagccc ttccctggc 1080
cactggacac cctgcccgtg cccctccac tcaactccat ctctacaatc cgtaacttta 1140
ccctgggggg cccagtgct ggggtgacc gaccaggggc cagtggaggc agcgaggagc 1200
ccggctgcc tggtagcagc ttcaagcagc aagcagcagc cgccgcgcc gccgcctata 1260
acccacacca cctgccatg cggccattc tgaggcctcg caagtacccc aacagaccca 1320
gcaagacgcc ggtgcacgag agggcctacc cgtgcccagc agaaggctgc gaccggcgtg 1380
tctcccgctc tgacgagctg acacggcaca tccgaatcca cactgggcat aagcccttcc 1440
agtgtcggat ctgcatgcgc aacttcagcc gcagtgaaca cctcaccacc catatccgca 1500
ccacaccgg tgagaagccc ttgcctgtg actactgtgg ccgaaagttt gcccgagtg 1560
atgagaggaa gcgccaccc aagatccacc tgagacagaa agagcggaaa agcagtgccc 1620
cctctgcac ggtgccagcc cctctacag cctcctgtc tgggggcgtg cagcctgggg 1680
gtaccctgtg cagcagtaac agcagcagtc ttggcggagg gccgtcgcc ccttgcctct 1740
ctcggaccgg gacaccttga gatgagactc aggcgtgatac accagctccc aaaggtccc 1800
gaggcccttt gtccactgga gctgcacaac aaacactacc acccttctct gtccctctct 1860
ccctttgttg ggcaaagggc tttggtggag ctagcactgc cccctttcca cctagaagca 1920
ggttcttctt aaaacttagc ccattctagt ctctcttagg tgagttgact atcaacccaa 1980
ggcaaagggg aggtctcagaa ggaggtgggt tggggacccc tggccaagag ggctgaggtc 2040
tgacctgtct ttaaagggtt gtttgactag gttttgtac cccacttccc cttattttga 2100
cccatcacag gtttttgacc ctggatgtca gagttgatct aagacgtttt ctacaatagg 2160
ttgggagatg ctgatccctt caagtgggga cagcaaaaag acaagcaaaa ctgatgtgca 2220
ctttatggct tgggactgat ttgggggaca ttgtacagtg agtgaagtat agcctttatg 2280
ccacactctg tggccctaaa atggtgaatc agagcatatc tagttgtctc aacccttgaa 2340
gcaatatgta ttataaactc agagaacaga agtgcaatgt gatgggagga acatagcaat 2400
atctgtctct tttcgagttg tttgagaaat gtaggctatt ttttcagtg atatacactc 2460
agattttgtg tatttttgat gtacactgtt ctctaaatct tgaatctttg ggaaaaaatg 2520
taaagcattt atgatctcag aggttaactt atttaagggg gatgtacata tattctctga 2580
aactaggatg catgcaattg tgttgggaat gtcttgggtg ccttgtgtga tgtagacaa 2640
gttacaaggt ctgcatgtaa atgggttgcc ttattatgga gaaaaaaatc actccctgag 2700
tttagtatgg ctgtatatth ctgcctatta atatttggaa ttttttttag aaagtatat 2760
tttgtatgct ttgttttgtg acttaaaagt gttacctttg tagtcaaatt tcagataaga 2820
atgtacataa tgttaccgga gctgatttgt ttggtcatta gctcttaata gttgtgaaaa 2880
aataaatcta ttctaacgca aaaccactaa ctgaagttca gataatggat ggtttgtgac 2940
tatagtgtaa ataaatactt ttcaacaaca aaaaaagaat 2980

```

<210> 171
<211> 5240
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 202023.6

```

<400> 171
gcctggctcc ctatgcctc cgcctagcag ctgccatcgg tgcgccccca cagctctagg 60
accaataggc aggccttagt gctgggactc gaacggctat tggttggccg agccgtgggt 120
agagatgggt cggtagcctg tcttggccct gcagagagct gtgggcgggt gtttaaggca 180
ccgtctgtga cgttagcccg tcaggccgag cagccccacg gcgattgggt agacaatcga 240
acgatctctc cttattggtc gaaggetcgt ccagctccga gcgtgcgtaa ggtgagggt 300
ccttccgctc cgcgactgcg ttaactggag ccaggctgag cgtcggcgcc ggggttcggt 360

```

ggcctctagt	gagatctgga	ggatccaagg	attctgtagc	tacaatgttg	tcaagacttt	420
ttcgaatgca	tggcctcttt	gtggcctccc	atccctggga	agtcatagtg	gggacagtga	480
cactgaccat	ctgcatgatg	tccatgaaca	tgtttactgg	taacaataag	atctgtggtt	540
ggaattatga	atgtccaaag	tttgaagagg	atgtttttgag	cagtgcattt	ataattctga	600
caataacacg	atcctagacc	atcctgtata	tttacttcca	gttccagaat	ttacgtcaac	660
ttggatcaaa	atatattttg	ggtattgctg	gccttttcac	aattttctca	agttttgtat	720
tcagtacagt	tgtcattcac	ttcttagaca	aagaattgac	aggcttgaat	gaagctttgc	780
cctttttcct	acttttgatt	gacctttcca	gagcaagcac	attagcaaa	tttgccctca	840
gttccaactc	acaggatgaa	gtaagggaaa	atattgctcg	tggaaatggc	attttaggtc	900
ctacgtttac	cctcgatgct	cttgttgaat	gtcttgtgat	tggagtgggt	accatgtcag	960
gggtacgtca	gcttgaaatt	atgtgctgct	ttggctgcat	gtcagttctt	gccaactact	1020
tcgtgttcat	gactttcttc	ccagcttgtg	tgtcttgggt	attagagctt	tctcgggaaa	1080
gccgcgaggg	tcgtccaatt	tggcagctca	gccattttgc	ccgagtttta	gaagaagaag	1140
aaaaaagac	gaatcctgta	actcagaggg	tcaagatgat	tatgtctcta	ggcttgggtc	1200
ttgttcatgc	tcacagtcgc	tggatagctg	atccttctcc	tcaaaacagt	acagcagata	1260
ccttctaagg	ttcatttagga	ctggatgaaa	atgtgtccaa	gagaattgaa	ccaagtgttt	1320
cctctgggca	gtttttcttc	tctaaaatga	tcagcatgga	tattgaacaa	gttattacct	1380
taagtttagc	tctccttctg	gctgtcaagt	acatcttctt	tgaacaaaca	gagacagaa	1440
ctacactctc	attaaaaaac	cctatcacat	ctcctgtagt	gacacaaaag	aaagtcccag	1500
acaattgttg	tagacgtgaa	cctatgctgg	tcagaaataa	ccagaaatgt	gattcagtag	1560
aggaagagac	agggataaac	cgagaaagaa	aagttgaggt	tataaaaccc	ttagtggctg	1620
aaacagatag	cccaaacaga	gctacatttg	tggttggtaa	ctcctcctta	ctcgatactt	1680
catcagtaact	ggtgacacag	gaacctgaaa	ttgaacttcc	cagggaacct	cggcctaattg	1740
aagaatgtct	acagataact	gggaatgcag	agaaagggtg	aaaattcctt	agtgatgctg	1800
agatcatcca	gttagtcaat	gctaagcata	tccagcccta	caagttggaa	actctgatgg	1860
aaactcatga	gcgtgggtga	tctattcgcc	gacagttact	ttccaagaag	ctttcagaac	1920
ccttctctct	cagtcacctc	ccttacaggg	attataatta	ctccttgggt	atgggagctt	1980
gttgtgagaa	tgttatttga	tatatgccca	tcctgttggg	agtggcagga	cccccttgct	2040
tagatgaaaa	agaatttcag	gttccaatgg	caacaacaga	aggttgtctt	gtggccagca	2100
ccaatagagg	ctgcagagca	ataggtcttg	gtggaggtgc	cagcagccga	gtccttgtag	2160
atgggatgac	tctgtgcccc	gttgtgcgtc	ttccacgtgc	ttgtgactct	gcagaagtga	2220
aagcctggct	cgaaacatct	gaagggttcg	cagtgataaa	ggaggcattt	gacagcacta	2280
gcagatttgc	acgtctacag	aaacttcata	caagtatagc	tggacgcaac	ctttatatcc	2340
gtttccagtc	caggtcaggg	gatgccatgg	ggatgaacat	gatttcaaa	ggtacagaga	2400
aagcactttc	aaaacttcac	gagtattttc	ctgaatgca	gattctagcc	gttagtggtg	2460
actattgtac	tgacaagaaa	cctgctgcta	taaattggat	agagggaaag	ggaaaatctg	2520
ttgtttgtga	agctgtcatt	ccagccaagg	ttgtcagaga	agtattaaag	actaccacag	2580
aggctatgat	tgaggtcaac	attaacaaga	atttagtggg	ctctgccatg	gctgggagca	2640
tagggagcta	caacgcccat	gcagcaaaca	ttgtcacccg	catctacatt	gectgtggac	2700
aggatgcagc	acagaatggt	ggtagtcca	actgtattac	tttaattgaa	gcaagtgttc	2760
ccacaaatga	agatttatat	atcagctgca	ccatgccatc	tatagagata	ggaacggtgg	2820
gtggtgggac	caacctacta	cctcagcaag	cctgtttgca	gatgctaggt	gttcaaggag	2880
gtgcaaaaga	taactctggg	gaaaatgccc	ggcagcttgc	ccgaattgtg	tgtgggaccg	2940
taatggctgg	ggaattgtca	cctatggcag	cattggcagc	aggacatctt	gtcaaaagtc	3000
acatgattca	caacaggtcg	aagatcaatt	tacaagacct	ccaaggagct	tgcaccaaga	3060
agacagcctg	aatagcccga	cagttctgaa	ctggaacatg	ggcattgggt	tctaaaggac	3120
taacataaaa	ctctgtgaatt	aaaaaagctc	aatgcattgt	cttgtggagg	atgaatagat	3180
gtgatcacctg	agacagccac	ttggtttttg	gctctttcag	agaggtctca	ggttctttcc	3240
atgcagactc	ctcagatctg	aacacagttt	agtgtcttac	atgtgtgtct	ctttgaagag	3300
atttcaacaa	gaatattgta	tgttaaagca	tcagagatgg	taatctacag	ctcacctctg	3360
aaggcaataa	taagctggga	aaaaagtttt	gatgaaatc	ttgaagtcca	tggtgatcag	3420
tgcaattgac	cttctccctc	acccctgcca	gttgaaaatg	gatttttaaa	ttatactgta	3480
gctgatgaaa	ctcctgattt	tgtagttaat	ttattaagtc	tgggatgtag	aacttcaaga	3540
agtaagagct	aagttctaa	ttcatgtttg	taaattaata	cttcatttgg	tgctggtcta	3600
ttttgatatt	ggggggtaat	cagcattatt	cttcagaagg	ggacctgttt	tcttcaaggg	3660
aagaaacact	cttattccca	aactacagaa	taatgtgtta	aacatgctaa	atagttctat	3720
caggaaaaca	aatcactgta	tttatctccg	caggctatct	gttcagagag	gccttttggc	3780
taaatataaa	tgtttaataa	taaatgtttg	tctggattgg	ctataacatg	tctttcagca	3840
ttaggctttt	aagaaacaca	gggtttttgt	ttctttacta	aagatatcag	agctcttaat	3900
gttgcttaga	tgaggggtgac	tgtcaagtag	aagcaagact	gggaccttag	aaatcattgt	3960
agaaacacag	ttttgaaaga	aaaataccat	gtctctaagc	caactttaag	tgcttaaaag	4020
acatttttat	ttagttgaaa	aatctagttt	tttttgtaaa	ctgtatcaaa	tctgtatatg	4080
ttgtaataaa	acttatgcta	gtttattgga	agtgttcaag	aaataaaaa	caacttgtgt	4140
actgataaaa	tactctagcc	tgggccagag	aagataatgt	tctttaatgt	tgtccaggaa	4200
accctggctt	gcttgccgag	cctaataaaa	gggaaagtca	gctttcagag	ccagtgaagg	4260
agccacgtga	atggccctag	aactgtgcct	agtctctgtg	gccaggaggt	tggtgactga	4320
aacattcaca	cagggctctt	tgatggaccc	acgaacgctc	ttagctttct	cagggggtca	4380

gcagagttat	tgaatcttaa	ttttttttaa	tgtacaagtt	ttgtataaat	aataaagaac	4440
tccttatttt	gtattacatc	taatgcttca	agtgttgctc	ttggaaagct	gatgatgtct	4500
cttgtagaag	atggactctg	aaaaacattc	caggaaacca	tggcagcatg	gagagcctct	4560
tagtgattgt	gtctgcattg	ttatttgtga	agattttacct	ttctgttgtg	acgtaaagct	4620
taaattgctt	ttgtttgtgac	tttttagcca	gtgacttttt	ctgagctttt	catggaagtg	4680
gcagtgaaaa	atatgttgag	tgttcatttt	agtactgtta	attaatatct	tgctggatta	4740
atgttttgta	caattactaa	attgtataca	ttttgttata	gaatactttt	ttctagtttc	4800
agtaaataat	gaaaaggaag	tgctgagggt	ctgagagggg	agatgcacgc	gtgtccaggc	4860
tgaagatgcc	cctatatctc	gtcaaagggt	ggcgggggga	ggtgttgggg	tcctttcatc	4920
tggtccggtt	tctggtgctt	cttgctaacc	aggccgagag	gccacacact	tgcccccca	4980
tcgccacaaa	ccaggtaatg	ccagtttgcc	agcagctatt	tgccataga	gatgagtctg	5040
tcctggcat	aactgtgtgc	tcaagggtgc	caggcttttg	ggcgtgggcc	tatctgggtg	5100
cattatggat	ggtttggtg	attgaggtgt	ggggaggagg	gtcctaggct	agagggggtg	5160
tccttagtta	gactttggga	agccaccttc	aaagttttat	ttttttattt	gtacctgcct	5220
tgttccagaa	aacgttgaag					5240

<210> 172

<211> 2097

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 350423.5

<400> 172

ggggcgctgc	cgtagtaggc	ctgccccctg	tccggccagc	ccctcgaagc	acctactcca	60
cagggtccagc	cggccgggtga	gcgcctgggg	accgcagagg	tgagagtcgc	gcccggggag	120
tccgccgctc	gcgccaggat	ggagttcgtg	aaatgccttg	ggccaccccg	aagagttcta	180
caacctgggtg	cgcttccgga	tccgggggcaa	gcggaagggtg	atgcccaaga	tggaccagga	240
ctcgctcagc	agcagcctga	aaacttgcta	caagtatctc	aatcagacca	gtcgagtttt	300
cgcagctggt	atccaggcgc	tggatgggga	aatgcgcaac	gcagtgtggc	atattttatc	360
tggttctccg	agctctggac	acactggaag	atgacatgac	catcagtgtg	gaaaagaagg	420
tcctcgctgt	acacaacttt	cactctttcc	tttaccaacc	agactggcgg	ttcatggaga	480
gcaaggagaa	ggatcgccag	gtgctggagg	acttcccaac	gatctccctt	gagtttagaa	540
atctggctga	gaaataccaa	acagtgattg	ccgacatttg	ccggagaatg	ggcattggga	600
tggcagagtt	tttggataag	catgtgacct	ctgaacagga	gtgggacaag	tactgccact	660
atgttgctgg	gctgggtcgga	attggccttt	cccgctcttt	ctcagcctca	gagtttgaag	720
accccttagt	tgggtgaagat	acagaacgtg	ccaactctat	gggcctgttt	ctgcagaaaa	780
caaacatcat	ccgtgactat	ctggaagacc	agcaaggagg	aagagagttc	tggcctcaag	840
agggtttggag	cagggtatgtt	aagaagttag	gggattttgc	taagccggag	aatattgact	900
tggccgtgca	gtgcctgaat	gaacttataa	ccaatgcact	gcaccacatc	ccagatgtca	960
tcacctacct	ttcgagactc	agaaaccaga	gtgtgtttaa	cttctgtgct	attccacagg	1020
tgatggccat	tgccactttg	gctgcctggt	ataataacca	gcagggtgttc	aaaggggcag	1080
tgaagattcg	gaaagggcaa	gcagtgaccc	tcatgatgga	tgccaccaat	atgccagctg	1140
tcaaagccat	catatatcag	tatatggaag	agattttatca	tagaatcccc	gactcagacc	1200
catcttctag	caaaacaagg	cagatcatct	ccaccatccg	gacgcagaat	cttcccaact	1260
gtcagctgat	ttcccgaagc	cactactccc	ccatctacct	gtcgtttgtc	atgcttttgg	1320
ctgccctgag	ctggcagtag	ctgaccactc	tctcccagggt	aacagaagac	tatgttcaga	1380
ctggagaaca	ctgatcccaa	atgtgtccat	agctgaagtc	caccataaag	tggatttact	1440
ttttttcttt	aaggatggat	gttgtgtttc	ctttattttt	ttcctactac	tttaatccct	1500
aaaagaacgc	tgtgtggctg	ggacctttag	gaaagtgaag	tgcaaggtag	aagaacctaa	1560
acatgaaagg	aaagggtgcc	tcatccagc	aacctgtcct	tgtgggtgat	gatcactgtg	1620
ctgcttgtgg	ctcatggcag	agcattcagt	gccacgggtt	agggtgaagtc	gctgcataatg	1680
tgactgtcat	gagatccctac	ttagtatgat	cctggctaga	atgataatta	aaagtattta	1740
atttgaagca	ccatttgaat	gttctgtaata	gtagaaaatg	atgtgaattt	tctttctgtt	1800
cggctcctat	ttttctcatc	attttgtttt	ctttaattgg	gttgaaatgga	gtagatagaa	1860
atattttatgg	tttaggtaac	agtttagatgt	ttcctaagaa	tgcaaaactgc	cttttccaca	1920
caaaggctgg	gaataaaaatt	ctgggttatcc	tcgtattctc	atttaaaggga	gttttagcttt	1980
cagagagaaa	cagcaggatt	gcttttgacc	ttttagaaga	ttggtctcca	gtaaagggtg	2040
acatttttga	gatttttata	ataaagaatt	taattgtctc	gcatttgtca	agtaaaa	2097

<210> 173

<211> 3169

<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1100023.1

<220>
<221> unsure
<222> 2469-2773
<223> a, t, c, g, or other

<400> 173

```
gctgggttta gtaggagacc tggggcaagg cccctgtgg acgaccatct gccagcttct 60
ctcgttccgt cgattggggag gagcggtggc gacctcgcc ttcagtgttt ccgacggagt 120
gaatggcggc .ggcggctggg atgctgctgc tgggcttget gcaggcgggt gggtcggtgc 180
tggggccaggc gatggagaag gtgacaggcg gcaacctctt gtccatgctg ctgatcgct 240
gcgccttcac cctcagcctg gtctacctga tccgtctggc cgccggccac ctggtccagc 300
tgcccgcagg ggtgaaaagt cctccataca ttttctcccc aattccattc cttgggcatg 360
ccatagcatt tgggaaaagt ccaattgaat ttctagaaaa tgcataatgag aagtatggac 420
ctgtatttag ttttaccatg gtaggcaaga cattactta cttctgggg agtgatgctg 480
ctgactgct ttttaatagt aaaaatgaag acctgaatgc agaagatgtc tacagtgcgc 540
tgacaacacc tgtgtttggg aagggagttg catacagatg gcctaatacca gttttcttgg 600
agcagaagaa aatgttaaaa agtggcctta acatagccca ctttaaacag catgtttcta 660
taattgaaaa agaaacaaag gaatactttg agagtgggg agaaagtggg gaaaaaaatg 720
tgtttgaagc tctttctgag ctcataatct taacagctag ccattgtttg catggaaagg 780
aaatcagaag tcaactcaat gaaaaggtag cacagctgta tgcagatttg gatggagggt 840
tcagccatgc agcctggctc ttaccaggtt ggctgccttt gcctagtttc agacgcaggg 900
acagagctca tcgggaaatc aaggataatt tctataaggc aatccagaaa cgcagacagt 960
ctcaagaaaa aattgatgac attctccaaa ctttactaga tgctacatac aaggatgggc 1020
gtcctttgac tgatgatgaa gtagcaggga tgcttatttg attactcttg gcagggcagc 1080
atacatctc aactactagt gcttggatgg gcttcttttt ggcagagac aaaacacttc 1140
aaaaaaaatg ttatttagaa cagaaaacag tctgtggaga gaatctgctt cctttaactt 1200
atgaccagct caaggatcta aatttacttg atcgctgtat aaaagaaaca ttaagactta 1260
gacctcctat aatgatcatg atgagaatgg ccagaactcc tcagactgtg gcagggtata 1320
ccattcctcc aggacatcag gtgtgtgttt ctcccactgt caatcaaaga cttaaagact 1380
catgggtaga acgcctggag tttaatcctg atcgctactt acaggataac ccagcatcag 1440
gggaaaagt tgcctatgtg ccatttggag ctgggcgtca tcgttgtatt ggggaaaatt 1500
ttgcctatgt tcaaattaag acaatttggg ccactatgct tcgtttatat gaatttgatc 1560
tcattgatgg atactttccc actgtgaatt atacaactat gattcacacc cctgagaacc 1620
cagttatccg ttacaacga agatcaaaa gaaaagggtt gcaaggaacg aatatatgtg 1680
attatcactg taagccacaa aggcattcga agagaatgaa gtgtacaaaa caactcttgt 1740
agtttactgt ttttttaagt gtgtaattct aaaagccagt ttatgattta ggattttgtt 1800
aactgaatgg ttctatcaaa tataatagca tttagacacat ttctaatag ttatgatact 1860
tatacatgtg ctttcaggaa gtcccttggg gaaacaattg ttgagggggg atctaggtaa 1920
ttggcagatt ctaaatata taatttccag actagtaatt taagagtact catcgtctct 1980
gccaaataag ttcagggtat tcaaactctg gactagtcct gcaagggtata aagaataaaa 2040
atcccagtg gatacttggg aaccacagtt tattattatt tatctgggca attatttgtt 2100
gtgtgaggat ggaagggtag ggaataatcg aacatctaaa gccttgaaata agagaatact 2160
aattgttttg gtatgatgat actcagaaat ggaggatatt ataggaaaaa gaaatccttt 2220
ggaattttta ctaaaatcac tgcatatggg aaattaagag atccaggacc atatttgata 2280
agagttccta aaaataatgt aattattaat gctaaagact gctcatgtat cttgatctaa 2340
ttactaaata aattacatat ttatttacct gataaatatg tatctagtct tacaaggtoa 2400
catttatgtg gaagtcacaa gtcaagtcct taggggataa ttttgttttg ggctcagttg 2460
ttccctgcnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 2520
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 2580
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 2640
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 2700
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 2760
nnnnnnnnnn nnnttcctg ctctctctct agaateccaat tagggatgtt tgttactact 2820
catattgatt aaaacagtta acaaaacttt ttctttttta aatgtgagat cagtgaactc 2880
tggttttaag ataactgaa acaaggctct tgggagtaat aaaattgggt acattctgta 2940
aagcacattc tgtttaggaa tcaacttatc tcaaattgta actcggggcc taactatatg 3000
agatggctga aaaaatacca catcgtctgt ttctactagg tgatgccaaa atattttgct 3060
ttatgtatat tacagtctct tttaaaacac tggaagactc atgttaaact ctaatttgtg 3120
aggcagaatc tctgctaatt tttcagatta aaattctctt tgaaaaaat 3169
```

<210> 174
<211> 502
<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 414196.8

<220>

<221> unsure

<222> 371, 394, 409, 420, 446, 448, 458

<223> a, t, c, g, or other

<400> 174

aacctctct	cctcagcgt	tcttctttct	tggtttgctc	ccagatcctg	actgctgtca	60
tggcgtgcc	tctggagaag	gccctggatg	tgatgggtgc	cacctccac	aagtactcgg	120
gcaagaggg	tgacaagttc	aagctcaaca	agtcagaact	aaaggagctg	ctgaccggg	180
agctgccag	cttcttgggg	aaaaggacag	atgaagctgc	ttccagaag	ctgatgagca	240
acttgacag	caacagggac	aacgaggttg	acttccaaga	gtactgtgtc	ttcctgtcct	300
gcacgcgat	gatgtgtaac	gaattctttg	aaggcttccc	agataagcag	cccagggaga	360
aatgaaaact	nctctgatgt	ggttgggggg	tctnccagct	ggggccctnc	ctgtcgccan	420
tgggcacttt	ttttttccac	cctggntnct	tcagacangt	gcttgatgct	gagcaagttc	480
aataaagatt	cttgaagatt	tt				502

<210> 175

<211> 5762

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 331106.6

<400> 175

gcgcgaccgt	ccccgggggtg	gggcggggcg	cagcggcgag	aggaggcgaa	ggtggctgcg	60
gtagcagcag	cgcggcagcc	tcgtgaccca	gcccgaggcg	cagggcggcc	gctgcaggtc	120
cccgctcccc	tccccgtgcg	tcgcgccatg	gccgcgcgcg	ggcagctgtg	cttgcctctac	180
ctgtcggcgg	ggctcctgtc	ccggctcggc	gcagccttca	acttggacac	tcgggaggac	240
aacgtgatcc	ggaaatatgg	agaccccggg	agcctcttcg	gcttctcgtc	ggccatgcac	300
tggcaactgc	agccccagga	caagcggcgtg	ttgctcgtgg	gggccccgcg	ggcagaagcg	360
cttccactgc	agagagccaa	cagaacggga	gggctgtaca	gctgcgacat	caccgcccgg	420
gggccatgca	cgcggatcga	gtttgataac	gatgctgacc	ccacgtcaga	aagcaaggaa	480
gatcagtggg	tgggggtcac	cgtccagagc	caaggtccag	ggggcaaggt	cgtgacatgt	540
gctcaccgat	atgaaaaaag	gcagcatgtt	aatacgaagc	aggaatcccc	agacatcttt	600
gggcggtgtt	atgtcctgag	tcagaatctc	aggattgaag	acgatatgga	tgggggagat	660
tggagctttt	gtgatggcgg	attgagaggc	catgagaaat	ttggctcttg	ccagcaaggt	720
gtagcagcta	cttttactaa	agactttcat	tacattgtat	ttggagcccc	gggtacttat	780
aactggaaag	ggattgttctg	tgtagagcaa	aagaataaca	ctttttttga	catgaacatc	840
tttgaagatg	ggccttatga	agtgtgtgga	gagactgagc	atgatgaaag	tctcgttcct	900
gttccctgcta	acagttactt	aggtttttct	ttggactcag	ggaaagggtat	tgtttcttaa	960
gatgagatca	cttttgtatc	tgggtgtccc	agagccaatc	acagtggagc	cgtggttttg	1020
ctgaagagag	acatgaagtc	tgcacatctc	ctccctgagc	acatatcgga	tggagaaggt	1080
ctggcctctt	catttggcta	tgatgtggcg	gtgggtggacc	tcaacaagga	tgggtggcaa	1140
gatatagtta	ttggagcccc	acagtatttt	gataagatg	gagaagttgg	agggtgcagt	1200
tatgtctaca	tgaaccagca	aggcagatgg	aataatgtga	agccaattcg	tcttaattga	1260
accaaagatt	ctatgtttgg	cattgcagta	aaaaatatgt	gagatatata	tcaagatggc	1320
taccagata	ttgcagttgg	agctccgtat	gatgacttgg	gaaagggttt	tatctatcat	1380
ggatctgcaa	atggaataaa	taccaaacca	acacagggtc	tcaagggtat	atcaccttat	1440
tttggatatt	caattgctgg	aaacatggac	cttgatcgaa	attcctaccc	tgatgtttgt	1500
gttggttccc	tctcagattc	agtaactatt	ttcagatccc	ggcctgtgat	taatatccag	1560
aaaaccatca	cagtaactcc	taacagaatt	gacctccgcc	agaaaacagc	gtgtggggcg	1620
cctagtggga	tatgcctcca	ggttaaatacc	tgttttgaat	atactgctaa	ccccgctggt	1680
tataatcctt	caatatcaat	tgtgggcaca	cttgaagctg	aaaaagaaag	aagaaaatct	1740
gggctatcct	caagagttca	gtttcgaaac	caaggttctg	agcccaaata	tactcaagaa	1800
ctaactctga	agaggcagaa	acagaaagtg	tgcattggagg	aaacctgtg	gctacaggat	1860
aatatcagag	ataaactcgc	tcccattccc	ataactgcct	cagtggagat	ccaagagcca	1920
agctctcgta	ggcgagtga	ttcacttcca	gaagtcttct	caattctgaa	ttcagatgaa	1980
cccaagacag	ctcatattga	tgttcacttc	ttaaaagagg	gatgtggaga	cgacaatgta	2040
tgtaacagca	accttaaaact	agaatataaa	ttttgcaccc	gagaaggaaa	tcaagacaaa	2100

ttttcttatt	taccaattca	aaaaggtgta	ccagaactag	ttctaaaaga	tcagaaggat	2160
attgcttttag	aaataacagt	gacaaacagc	ccttccaacc	caaggaatcc	cacaaaagat	2220
ggcgatgacg	cccatgaggc	taaactgatt	gcaacgtttc	cagacacttt	aacctattct	2280
gcatatagag	aactgagggc	tttccctgag	aaacagttga	gttggtgtgc	caaccagaat	2340
ggctcgcaag	ctgactgtga	gctcggaat	ccttttaaaa	gaaattcaaa	tgctactttt	2400
tatttggttt	taagtacaac	tgaagtcacc	tttgacaccc	cagatctgga	tattaatctg	2460
aagttagaaa	caacaagcaa	tcaagataat	ttggctccaa	ttacagctaa	agcaaaagtg	2520
gttattgaac	tgcttttatc	gggtctcgga	gttgctaaac	cttcccagggt	gtatttttgg	2580
ggtagcagttg	ttggcgagca	agctatgaaa	tctgaagatg	aagtgggaag	tttaatagag	2640
tatgaattca	gggtaataaa	cttaggtaaa	cctcttacia	acctcggcac	agcaaccttg	2700
aacattcagt	ggccaaaaga	aattagcaat	gggaaatggt	tgctttatatt	ggtgaaagta	2760
gaatccaaag	gattggaaaa	ggtaacttgt	gagccacaaa	aggagataaa	ctccctgaac	2820
ctaacggagt	ctcacaactc	aagaaagaaa	cgggaaatta	ctgaaaaaca	gatagatgat	2880
aacagaaaa	tttctttatt	tgctgaaaga	aaataccaga	ctcttaactg	tagcgtgaac	2940
gtgaactgtg	tgaacatcag	atgcccgtcg	cgggggctgg	acagcaaggc	gtctcttatt	3000
ttgcgctcga	ggttatggaa	cagcacattt	ctagaggaat	attccaaact	gaactacttg	3060
gacattctca	tgcgagcctt	cattgatgtg	actgtgtgtg	ccgaaaatat	caggctgcca	3120
aatgcagcca	ctcaggttcg	agtgtactgtg	tttccctcaa	agactgtagc	tcagtattcg	3180
ggagtacctt	ggtggatcat	cctagtggct	attctcgctg	ggatcttgat	gcttgcctta	3240
ttagtgttta	tactatggaa	gtgtggtttc	ttcaagagaa	ataagaaaga	tcattatgat	3300
gccacatatc	acaaggttga	gatccatgct	cagccatctg	ataaagagag	gcttacttct	3360
gatgcatagt	attgtgtatc	ttctgttaatt	gtgtggattc	tttaaacgct	ctaggtacga	3420
tgacagtgtt	ccccgatacc	atgctgttaag	gatccggaaa	gaagagcgag	agatcaaaga	3480
tgaaaagtat	attgataacc	ttgaaaaaaa	acagtggatc	acaaagtgga	acagaaatga	3540
aagctactca	tagcgggggc	ctaaaaaaa	aaaaagcttc	acagtaacca	aactgctttt	3600
tccaactcag	aaattcaatt	tggatttaaa	agcctgtctc	atccctgagg	actgatttca	3660
gagtgtactac	acacacagtc	aacctacagt	tttaactgtg	gatattgtta	cgtagcctaa	3720
ggctcctgtt	ttgcacagcc	aaatttaaaa	ctgttggaat	ggatttttct	ttactgccg	3780
taatttaact	ttctgggttg	cctttgtttt	tggcggtggc	gacttacatc	atgtgtggg	3840
gaagggcctg	cccagttgca	ctcaggtgac	atcctccaga	tagtgtagct	gaggaggcac	3900
ctacactcac	ctgcactaac	agagtggcgc	ttctaaccct	gggcctgtcg	cgagagcgtc	3960
catcacgtta	gctgtccac	atcacagac	tatgccattg	gggtagtgtg	gtttcaacgg	4020
aaagtgtgtg	cttaaaactaa	atgtgcaata	gaaggtgatg	ttgccatcct	accgtctttt	4080
cctgtttcct	agctgtgtga	atacctgtct	acgtcaaagt	catacaagtt	tcattctccc	4140
tttcaactaa	ttgcaacagc	ttgaatgcta	gttatactta	gttatactta	tttgtatatg	4200
gtattttatt	tttcttttct	ttacaacca	ttttgttatt	gactaacagg	ccaaagagtc	4260
tcagttttac	ccttcagggt	ggtttaatac	atcagaatta	gaattagagc	atgggaggtc	4320
atcactttga	cctaaattat	ttactgcaaa	aagaaaatct	ttataaatgt	accagagaga	4380
gttgttttaa	ataactata	acctctcctt	catgacagcc	catgacagcc	tccacccac	4440
aacccaaaag	gtttaagaaa	actgtaaaaga	tgtttatctt	tgtttatctt	aggcatttga	4500
tattttttac	tttagaagcc	tgcataatgt	catactgtaa	catactgtaa	cattcaggaa	4560
ttcttgagga	aaatgggttt	attcactgaa	ctctagtgcg	gtttactcac	tgctgcaaat	4620
actgttatatt	caggacttga	aagaaatggt	gaatgcctat	gggtgatcca	aactgatcca	4680
gtataagact	gtataactcg	ctaccaaacc	agttaatcag	tgagtcgatg	ttctattttt	4740
tgttttgttt	cctcccctat	ctgtattccc	aaaaattact	ttggggctaa	tttaacaaga	4800
actttaaatt	gtgttttaatt	tgtaaaaatg	gcaggggggtg	gaattattac	tctatacatt	4860
caacagagac	tgaatagata	tgaagctga	ttttttttaa	ttaccatgct	tcacaatgtt	4920
aagtatatatg	gggagcaaca	gcaaacaggt	gctaatttgt	tttggaata	gtataagcag	4980
tgtctgtgtt	ttgaaaagaat	agaacacagt	ttgtagtgc	actgttggtt	tggggggggt	5040
ttttcttttt	cggaaatctt	aaaccttaag	atactaagga	cgttggtttt	gttggtacttt	5100
ggaattctta	gtcacaaaat	atattttgtt	tacaaaaatt	tctgtaaaaac	aggttataaac	5160
agtgttttaa	gtctcagttt	cttgcttggg	gaacttgtgt	ccctaattgtg	tttagattgc	5220
tagatttgcta	aggagctgat	actttgacag	tgttttttaga	cctgtgtttac	taaaaaaag	5280
atgaatgtcc	tgaagggtt	gttgggaggg	tggttcaaca	aagaaacaaa	gatgttatgg	5340
tgttttagatt	tatgggtgtt	aaaaatgtca	tctcaagtca	agtcactggt	ctgtttgcat	5400
ttgatacatt	tttgacttaa	ctagcattgt	aaaattatatt	catgattaga	aattacctgt	5460
ggatatattgt	ataaaagtgt	gaaataaatt	ttttataaaa	gtgttcattg	tttcgtaaca	5520
cagcattgtta	tatgtgaagc	aaactctaaa	attataaatg	acaacctgaa	ttatctattt	5580
catcaaacca	aagtccagtg	tttttatctt	tgggtgtctca	tgtaattctca	gatcagccaa	5640
agatactagt	gccaaagcaa	tgggattcgg	ggtttttttc	tggttttcgct	ctatgtagggt	5700
gatccctcaag	tctttcattt	tccttcttta	tgattaaaag	aaacctacag	gtattttaaca	5760
ac						5762

<210> 176
 <211> 2733
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: g180670

<400> 176

```
cctctgtctc ctgggctgcc tgctgagcca cgcgcgcgcc gcgcgcgtcg ccatcatcaa 60
gttccccggc gatgtcgcgc ccaaaacgga caaagagtgg gcagtgcgat acctgaacac 120
cttctatggc tgccccagg agagctgcaa cctgtttgtg ctgaaggaca cactaaagaa 180
gatgcagaag ttctttggac tgccccagac aggtgatctt gaccagaata ccatcgagac 240
catgcggaag ccacgtcgcg gcaaccaga tgtggccaac tacaacttct tccctcgcaa 300
gccaagtgg gacaagaacc agatcacata caggatcatc ggctacacac ctgatctgga 360
cccagagaca gtggatgatg cctttgctcg tgccttccaa gtctggagcg atgtgacccc 420
actcgggttt tctcgaatcc atgatggaga ggcagacatc atgatcaact ttggccgctg 480
ggagcatggc gatggatacc cctttgacgg taaggacgga ctctggctc atgccttcgc 540
cccaggcact ggtgttgggg gagactccca ttttgatgac gatgagctat ggaccttggg 600
agaaggccaa gtggtccgtg tgaagtatgg gaacgccgat ggggagtact gcaagtcccc 660
cctctgttct attggaagg agtacaacag ctgcaactgt actggccgca gcgatggctt 720
cctctgttgc tccaccacct acaactttga gaaggatggc aagtacggct tctgtcccca 780
tgaagccctg ttaccatgg gcggaacgc tgaaggacag ccctgcaagt ttccattccg 840
cttcaggggc acatcctatg acagctgcac cactgagggc cgcacggatg gctaccgctg 900
gtgcggcacc actgaggact acgaccgca caagaagtat ggcttctgct ctgagaccgc 960
catgtccact gttggtggga actcagaagg tgccccctgt gtcttccctc tcactttcct 1020
gggcaacaaa tatgagagct gcaccagcgc cggccgcagt gacggaaaga tgtggtgtgc 1080
gaccacagcc aactacgatg acgaccgcaa gtggggcttc tgccctgacc aagggtacag 1140
cctgttctct gtggcagccc acgagtgttg ccacgccatg gggctggagc actcccaaga 1200
cctctggggc ctgtatggc ccatttacac ctacaccaag aacttccgtc tgtccaggaa 1260
tgacatcaag ggcattcagg agctctatgg ggctctctct gacattgacc ttggcaccgg 1320
ccccacccc acactgggccc ctgtcactcc tgagatctgc aaacaggaca ttgtatttga 1380
tggcatcgct cagatccgtg gtgagatctt cttcttcaag gaccggttca tttggcggac 1440
tgtgaagcca cgtgacaagc ccattggggc cctgctggtg gccacattct ggcttgagct 1500
ccggaaaaag attgatcgcg tatacaggc cccacaggag gagaaggctg tgttctttgc 1560
agggaaatgaa tactggatct actcagccag cacttggag cgaggggtacc ccaagccact 1620
gaccagcctg ggactgcccc ctgatgtcca gcgagtggat gccgccttta actggagcaa 1680
aaacaagaag acatacatct ttgctggaga caaattcttg agatacaatg aggtgaagaa 1740
gaaaatggat cctggcttcc ccaagctcat cgcagatgcc tggaaatgcca tccccgataa 1800
cctggatgcc gtctgggacc tgcagggcgg cggtcacagc tacttcttca aggggtgcct 1860
ttacctgaag ctggagaacc aaagtctgaa gagcgtgaag tttggaagca tcaaataccga 1920
ctggctaggc tgctgagctg gccctggctc ccacaggccc ttctcttcca ctgcttctga 1980
tacaccgggc ctggagaact agagaaggac ccggaggggc ctggcagccg tgcttctcagc 2040
tctacagcta atcagcatct tcaactctac ctggtaattt aagattccag agagtggctc 2100
ctcccggtgc ccaagaatag atgctgactg tactcctccc aggcgcctcc tccccctcca 2160
atccccacaa cctcagagc caccctctaa gagatacttt gatattttca acgcagccct 2220
gcttgggct gccctgtgct tgccacactt caggctcttc tcttctcaca accttctgtg 2280
gtctacagaa ccttggagc caatggagac tgtctcaaga gggcactggg ggcccgacag 2340
cctggcacag ggcagtggga cagggcagtg ccagggtggc actccagacc cctggctttt 2400
cactgctggc tgccctagaa ctttcttctt attagcagtt tgctttgtat gcactttgtt 2460
ttttctttt ggtctgtttt tttttttcca cttagaaatt gcatttctct acagaaggac 2520
tcaggttgtc tgaagtcaact gcacagtcca tctcagccca catagtgat gttccccctg 2580
tcaactctact tagcatgtcc ctaccgagtc tcttctccac tggatggagg aaaaccaagc 2640
cgtggcttcc cgtcagccc tccctgcccc tcccttcaac cattccccat gggaaatgtc 2700
aacaagtatg aataaagaca cctactgagt ggc 2733
```

<210> 177

<211> 3707

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 236574.12

<400> 177

```
gaattcttag ttgttttctt tagaagaaca tttctagggg ataatacaag aagatttagg 60
aatcattgaa gttataaact ttgggaatga gcaaacctcag aatgggtgcta cttgaagact 120
ctggatctgc tgacttcaga agacattttg tcaacctgag tcccttcacc attactgtgg 180
tcttacttct cagtgcctgt tttgtcacca gttctcttgg aggaacagac aaggagctga 240
ggctagtggg ttggtgaaaac aagtgtagcg gggagagtgg aagtgaaagt ccaggaggag 300
```

tggggaacgg	tgtgtaataa	tggttgagc	atggaagcgg	tctctgtgat	ttgtaaccag	360
ctgggatgtc	caactgctat	caaagccct	ggatgggcta	attccagtgc	aggttcttga	420
cgcatttggg	ggatcatgt	ttcttgtcgt	gggaatgagt	cagctctttg	ggattgcaaa	480
catgatggat	gggaaagca	tagtaactgt	actcaccaac	aagatgctgg	agtgacctgc	540
tcagatggat	ccaatttggg	aatgaggtcg	acgcgtggag	ggaatatgtg	ttctggaaga	600
atagagatca	aattccaagg	acggtgggga	acagtgtgtg	atgataactt	caacatagat	660
catgcatctg	tcatttgtag	acaacttgaa	tgtggaagtg	ctgtcagttt	ctctgggttca	720
tctaattttg	gagaaggctc	tggaaccaat	tggtttgatg	atcttatatg	caacggaaat	780
gagtgcagctc	tctggaactg	caaacatcaa	ggatggggaa	agcataactg	tgatcatgct	840
gaggatgctg	gagtgtattg	ctcaaaggga	gcagatctga	gcctgagact	ggtagatgga	900
gtcactgaat	gttcaggaag	attagaagtg	agattccaag	gagaatgggg	gacaatatgt	960
gatgacggct	gggacagtta	cgatgctgct	gtggcatgca	agcaactggg	atgtccaact	1020
gccgtcacag	ccattgggtcg	agttaacgcc	agtaagggaat	ttggacacat	ctggcttgac	1080
agcgtttctt	gccagggaca	tgaacctgct	gtctggcaat	gtaaacacca	tgaatgggga	1140
aagcattatt	gcaatcacaa	tgaagatgct	ggcgtgacat	gttctgatgg	atcagatctg	1200
gagctaagac	ttagaggtgg	aggcagccgc	tgtgctggga	cagttgaggt	ggagattcag	1260
agactgttag	ggaagggttg	tgacagaggc	ttgggactga	aagaagctga	tgtggtttgc	1320
aggcagctgg	gatgtggatc	tgactcaaaa	acatcttatc	aagtgtactc	caaaatccag	1380
gcaacaaaca	catggctgtt	tctaagtagc	tgtaacggaa	atgaaacttc	tctttgggac	1440
tgcaagaact	ggcaatgggg	tggaacttacc	tgtgatcact	atgaagaagc	caaaattacc	1500
tgctcaggcc	cacaggggaa	cccagactgg	ttggagggga	cattccctgt	tctggacgtg	1560
ttgaagtga	catgggtgac	acgtggggct	ccatctgtga	ttcagacttc	tctctggga	1620
ctgccagcgt	tctatgcagg	gaattacagt	gtggcacagt	tgtctctatc	ctggggggag	1680
ctcacttttg	agagggaaat	ggacagatct	gggctgaaga	attccagtgt	gagggacatg	1740
agtcccatct	ttcactctgc	ccagtagcac	cccgccaga	aggaacttgt	agccacagca	1800
gggatgttgg	atcagtctgc	tgcaagatca	cagaaattcg	cttgggtgaat	ggcaagacc	1860
cgtgtgaggg	cagagtggag	ctcaaaacgc	ttgggtgctg	gggatccctc	tgtaactctc	1920
actggggacat	agaagatgcc	catgttcttt	gccagcagct	taaatgtgga	gttgcccttt	1980
ctaccccagg	aggagcacgt	tttggaaaag	gaaatggtca	gatctggagg	catatgtttc	2040
actgcactgg	gactgagcag	cacatgggag	attgtcctgt	aactgctcta	ggtgcttcac	2100
tatgtccttc	agagcaagtg	gcctctgtaa	tctgctcagg	aaaccagtcc	caaacactgt	2160
cctcgtgcaa	ttcatcgtct	ttggggccaa	caaggcctac	cattccagaa	gaaagtgtct	2220
tggcctgcac	agagagtgg	caacttcgcc	tggtaaatgg	aggaggtcgc	tgtgctggga	2280
gagttagagat	ctatcatgag	ggctcctggg	gcaccatctg	tgatgacagc	tgggacctga	2340
gtgatgcccc	cgtggtttgc	agacagctgg	gctgtggaga	ggccattaat	gccactggtt	2400
ctgctcattt	tggggaagga	acagggccca	tctggctgga	tgagatgaaa	tgcaatggaa	2460
aagaatcccc	catttggcag	tgccattcac	acggctgggg	gcagcaaaat	tgccaggcaca	2520
aggaggatgc	gggagtatat	tgctcagaat	tcattgtctc	gagactgacc	agtgaagcca	2580
gcagagaggg	ctgtgcaggg	cgtctggaa	ttttttacaa	tggagcttgg	ggcactgttg	2640
gcaagagtag	catgtctgaa	accactgtgg	gtgtggtgtg	caggcagctg	ggctgtgcag	2700
acaaagggaa	aatcaaccct	gcatctttag	acaaggccat	gtccattccc	atgtgggtgg	2760
acaatgttca	gtgtccaaaa	ggacctgaca	cgtgtggg	agtgtccatc	atctccatgg	2820
gagaagagac	tggtcagccc	ctcggaggag	acctggatca	catgtgacaa	caagataaga	2880
cttcaggaag	gacctacttc	ctgttctgga	cgtgtggaga	tctggcatgg	aggttctctg	2940
gggacagtgt	gtgatgactc	ttgggacttg	gacgatgtc	aggtggtgtg	tcaacaactt	3000
ggctgtggct	cagctttgaa	agcattcaaa	gaagcagagt	ttggtcaggg	gactggaccg	3060
atatggctca	atgaagtga	gtgcaaagg	aatgagtctt	ccttgtggga	ttgtcctgcc	3120
agacgctggg	gccatagtga	gtgtgggcac	aaggaagacg	ctgcagtga	ttgcacagat	3180
atttcagtgc	agaaaacccc	acaaaaagcc	acaacaggtc	gctcatccc	tcagtcatcc	3240
tttattgcag	tcgggatcct	tggggttggt	ctgttggcca	ttttcgtcgc	attattcttc	3300
ttgactaaaa	agcgaagaca	gagacagcgg	cttgcagttt	cctcaagagg	agagaactta	3360
gtccacaaaa	ttcaataacc	ggagatgaat	tcttgcctga	atgcagatga	tctggacctt	3420
atgaattcct	caggaggcca	ttctgagcca	cactgaaaag	gaaaatggga	atttataacc	3480
cagtgaagtc	agcctttaag	ataccttgat	gaagacctgg	actattgaat	ggagcagaaa	3540
ttcacctctc	tactgacta	ttacagttgc	atttttatgg	agttcttctt	ctcctaggat	3600
tcctaagact	gctgctgaat	ttataaaaat	taagtttgtg	aatgtgacta	cttagtggtg	3660
tatatgagac	tttcaaggga	attaaataaa	taaataagaa	tgttaaa		3707

<210> 178

<211> 4809

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1000033.6

<400> 178

```

gttgggacca gatggattgt agggagtagg gtacaataca gtctgggtct ctcagctcc 60
ttctttctgc aacatgggga agaacaact ccttcatcca agtctgggtc ttctcctctt 120
ggctcctctg cccacagacg cctcagtctc tggaaaaccg cagtatatgg ttctgggtccc 180
ctccctgttc cacactgaga ccaactgaga gggctgtgtc cttctgagct acctgaatga 240
gacagtgact gtaagtgtt ccttggagtc tgtcagggga aacaggagcc tcttactga 300
cctggaggcg gagaatgacg tactccactg tgtcgccttc gctgtcccaa agtcttcatc 360
caatgaggag gtaatgttcc tcaactgtcca agtgaaagga ccaaccaag aatttaagaa 420
gcggaccaca gtgatgggta agaacgagga cagtctgttc tttgtccaga cagacaaatc 480
aatctacaaa ccagggcaga cagtgaatt tctgtgtgtc tccatggatg aaaactttca 540
cccctgaat gagtgtatt cactagtata cattcaggat cccaaaggaa atcgcatcgc 600
acaatggcag agtttccagt tagagggtgg cctcaagcaa ttttcttttc cctctctatc 660
agagcccttc cagggtcctt acaaggtggt ggtacagaag aaatcaggtg gaaggacaga 720
gcaccctttc accgtggagg aatttgttct tcccaagttt gaagtacaag taacagtgc 780
aaagataatc accatcttgg aagaagagat gaatgtatca gtgtgtggcc tatacacata 840
tggaagcct gtccctggac atgtgactgt gagcatttgc agaaagtata gtgacgcttc 900
cgactgttc ggtgaagatt cacaggcttt cagtgaagaa ttcagtggac agctaaacag 960
ccatggctgc tttatcagc aagtaaaac caaggtcttc cagtgaaga ggaacagtgg tggaaattgac 1080
tggaaggcag tccagtgaat tcacaagaac cataaccaaa ctctcatttg tgaaagtgga 1140
ctcacactt cgacaggaa ttccctctt tgggcaggtg cgcctagtag atgggaaagg 1200
cgtccctata ccgaataaag tcatattcat cagaggaaat gaagcaaaact attactccaa 1260
tgctaccacg gatgagcatg gccttgtaca gttctctatc aacaccacca atgttatggg 1320
tacctctctt actgttaggg tcaattacaa ggatcgtagt cctgtttacg gctaccagt 1380
gggtgcagaa gaacacgaag aggcacatca cactgcttat cttgtgttct ccccaagcaa 1440
gagctttgtc ccactgtgag ccactgtctc tgaactacce tgtggccata ctacagact 1500
ccaggcacat tatattctga atggaggcac cctgctgggg ctgaagaagc tctccttcta 1560
ttatctgata atggcaagg gaggcattgt ccgaactggg actcatggac tgcctgtgaa 1620
gcaggaagac atgaagggcc atttttccat ctcaatccct gtgaagtcag acattgtctc 1680
tgtcgtctcg tctctcatct atgctgtttt acctaccggg gacgtgattg gggattctgc 1740
aaaaatgat gttgaaaatt gtctggccaa caaggtggat ttgagcttca gcccatcaca 1800
aagtctccca gcctcacacg cccacctgcg agtcacagcg gctcctcagt ccgtctgcgc 1860
cctccgtgct ttggaccaaa gcgtgctgct catgaagcct gatgctgagc tctcggcgct 1920
ctcggtttac acggtgttac cagaaaaagga cctcactggc tccctgggc ctttgatga 1980
ccaggacgat gaagactgca tcaatcgtca taatgtctat attaattgaa tcacatatac 2040
tccagtatca agtcaaaatg aaaaggatat gtacagcttc ctagaggaca tgggcttaaa 2100
ggcattcacc aactcaaaga ttcgtaaaac caaaatgtgt ccacagcttc aacagtatga 2160
aatgcattga cctgaaggte tacgtgtagg tctttatgag tcagatgtaa tgggaagagg 2220
ccatgcacgc ctggtgcatg ttgaagagcc tcacacggag accgtacgaa agtacttccc 2280
tgagacatgg atctgggatt tgggtgggtt aaactcagca ggtgtggctg aggtaggagt 2340
aacagtccct gacaccatca ccgagtggaa ggcaggggcc ttctgcctgt ctgaagatgc 2400
tggacttggt atctcttcca ctgcctctc cggaccctc cagcccttct ttgtggagct 2460
cacaatgcct tactctgtga ttcgtggaga gcagctggaa gctctcccg ccttcttagc 2520
ctaccctccc aaatgcatcc gggtcagtgt gcagctggaa gctctcccg ccttcttagc 2580
tgtcccagtg gagaaggaa aagcgctca ctgcatctgt gcaaacgggc ggcaactgt 2640
gtcctgggca gtaaccccaa agtcattagg aaatgtgaat ttactgtga gcgcagaggc 2700
actagactct caagagctgt ggtggactga ggtgccttca gttcctgaac acggaaggaa 2760
agacacagtc atcaagcctc tgttgggtga acctgaagga ctagagaagg aaacaacatt 2820
caactcccta ctttgtccat caggtggtga ggtttctgaa gaattatccc tgaaactgcc 2880
accaaattgt gtagaagaat ctgcccagc ttctgtctca gttttgggag acatattagg 2940
ctctgccatg caaaacacac aaaatcttct ccagatgcc tatggctgtg gagagcagaa 3000
tatggctctc tttgtctcta acatctatgt actggattat ctaaattgaa cacagcagct 3060
tactccagag gtcaagtcca aggcatttgg ctatctcaac actggttacc agagacagtt 3120
gaactacaaa cactatgatg gctcctacag cacctttggg gagcgatatg gcaggaacca 3180
gggcaacacc tggctcacag cctttgttct gaagactttt gcccaagctc gagcctacat 3240
cttcatcgat ttcaaggagt ctgggtcact cctcatatgg ctctccaga ggcagaagga 3300
caatggctgt ttcaggagct ctgggtcact gctcaacaat gccataaagg gaggagtaga 3360
agatgaagtg accctctccg cctatatcac catcgccct ctggagattc ctctcacagt 3420
cactcaccct gttgtccgca atgcctgtt ttgcttgga tcagcctgga agacagcaca 3480
agaaggggac catgggcacc atgtatatac caaagcactg ctggcctatg cttttgccct 3540
ggcaggtaac caggacaaga ggaagggaag actcaagtca cttaatgagg aagctgtgaa 3600
gaaagacaac tctgtccatt gggagcgccc tcagaaaccc aaggcaccag tggggcattt 3660
ttacgaaccc caggctccct ctgctgaggt ggagatgaca tccatgtgc tctctgctta 3720
tctcagggc cagcgaaccc caacctgacc tctgcaacca acatcgtgaa 3780
gtggatcacg aagcagcaga atgcccagg cggttttctc tccaccagg acacagtgg 3840
ggctctccat gctctgtcca aatatggagc agccacattt accaggactg ggaaggctgc 3900
acagggtact atccagtctt cagggaacatt ttccagcaaa ttccaagtgg acaacaacaa 3960

```

```

ccgcctgtta ctgcagcagg tctcattgcc agagctgcct ggggaatata gcatgaaagt 4020
gacaggagaa ggatgtgtct acctccagac atccttgaaa tacaatatcc tcccagaaaa 4080
ggaagagttc ccccttgctt taggagtgca gactctgcct caaacttggt atgaacccaa 4140
agcccacacc agcttccaaa tctccctaag tgctcagttac acagggagcc gctctgcctc 4200
caacatggcg atcgttgatg tgaagatggt ctctggcttc attccctga agccaacagt 4260
gaaaatgctt gaaagatcta accatgtgag ccggacagaa gtcagcagca accatgtctt 4320
gatttacctt gataaggtgt caaatcagac actgagcttg ttcttcacgg ttctgcaaga 4380
tgtcccagta agagatctga aaccagccat agtgaaagtc tatgattact acgagacgga 4440
tgagtttgca attgctgagt acaatgctcc ttgcagcaaa gatcttgga atgcttgag 4500
accacaaggg tgaaaagtgc tttgctggag tctgttctc agagctccac agaagacacg 4560
tgtttttgta tctttaaaga cttgatgaat aaacactggg gattaaggaa gtccaggagt 4620
tttacaagga cacctacaac aagctgaaaa ccaaggatga gcccagcgg gaaacgctga 4680
aagccatcca ctatgcgttg aactgctgtg gtttggtgg gggcgtggaa cggtttatct 4740
cagacatctg tcccaagaag gacgtactcg aaaacttcac cgtgaagtcc tgtgctgatg 4800
ccatcaaaag                                     4809

```

<210> 179

<211> 1164

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 037567.22

<220>

<221> unsure

<222> 880

<223> a, t, c, g, or other

<400> 179

```

gcggaatgtc acaaaggcgc aggggtggtg cccaaagagt ttggttttgt ggggctgcag 60
accaaaagcgg cccaggaagc gccggacgtc gctgaagctg gcgtggcgag gcacgttctg 120
cagctccagt ttaaagatct cagaggacac tcatgaggac catgatactt ccactgagaa 180
tacagacgag tccaaccatg accctcagtt tgagccaata gtttctcttc ctgagcaaga 240
aattaaaaaca ctggaagaag atgaagagga acttttttaa atgcgggcaa aactgttccg 300
atttgctctt gagaacgatc tcccagaatg gaaggagcga ggcactgggt acgtcaagct 360
cctgaagcac aaggagaaaag gggccatccg cctctcatg cggaggggaca agacctgaa 420
gatctgtgce aaccactaca tcacgcgat gatggagctg aagcccaacg caggtagcga 480
cgtgacctgg gtctggaaca cccacgctga ctctgcgac gagtgcocca agccagagct 540
gctggccatc cgttctctga atgctgagaa tgcacagaaa ttcaaaacaa agtttgaaga 600
atgcaggaaa gagatcgaag agagagaaaa gaaagcagga tcaggcaaaa atgatcatgc 660
cgaaaaagtg gcggaagagc tagaagctct ctcggtgaag gaggagacca aggaggatgc 720
tgaggagaag caataaatcg tcttatttta tttcttttcc ctctcttttc tttcttttt 780
ttaaaaaatt ttacctgcc cctcttttcc ggtttggttt tattctttca tttttacaag 840
ggacgttata taaagaactg aactcaacat tcaggttgtn tttttttttt gtttctaagt 900
ttttgcctta ttgaagatga cttcagaaaa tccattcccc agtcatgaaa atgtactgtg 960
ctaactttct tttccatagt ggaaacactt atttatagtc atcaaaaata gtgaataaaa 1020
aacacatttg gaacctgggc cagatggcag gactgtgtgt gtacaggccc ctgcgctgtg 1080
agcgccgctc gcctaagcct cccgggtgta tgtccaggcc tgtccgcagc acagggtgggt 1140
gctgcacctc acggtagcct gggt                                     1164

```

<210> 180

<211> 2996

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 995610.1

<400> 180

```

ggagtttatt cataacgcgc tctccaagta tacgtggcaa tgcgttgctg gggtatttta 60
atcattctag gcatcgtttt cctccttatg cctctatcat tcctccctat ctacactaac 120
atcccacgct ctgaacgcgc gcccattaat acccttcttt cctccactct ccctgggact 180
cttgatcaaa gcgcggccct ttcccagcc gccctgcagc ctggtagcgc 240
cgtggcgtgg cgggtgggcgc gcagtgctt ctccgtgtgg agggcagctg ttccgctgc 300

```


gatgatttat	actcacagga	caaggatgcg	gtttgtcaaa	cagtactgct	acggaggagc	360
agcagagaaa	gggagagggt	ttgagaggga	gcaaaagaaa	atggtaggcg	cgcgtagtta	420
attcatgctg	ctctcttact	ctgtttacat	cctagagcta	gagtgtctcg	ctgccgggct	480
gagtctcttc	cccaccttcc	ccaccctccc	caccctcccc	ataagcgccc	tcccgggttc	540
ccaaagcaga	gggcgtgggg	gaaaagaaaa	aagatcctct	ctcgctaata	tccgcccacc	600
ggccctttat	aatgcgaggg	tctggacggc	tgaggacccc	cgagctgtgc	tgctcgcggc	660
cgccaccgcc	gggccccggc	cgccccctgc	tccccctcct	cctcgagaag	ggcagggttt	720
ctcagaggct	tggcgggaaa	aagaacggag	ggagggatcg	cgctgagtat	aaaagccggt	780
tttcggggct	ttatctaaat	cgctgtagta	attccagcga	gaggcagagg	gagcgagcgg	840
gcggcccgct	aggggtggaag	agccggggcg	gcagagctgc	gctgcggggc	tcctgggaag	900
ggagatccgg	agcgaatagg	gggcttcggc	tctggcccag	ccctcccgct	gatccccag	960
ccagcggctc	gcaacccttg	ccgcatccac	gaaactttgc	ccatagcagc	gggccccgac	1020
tttgcactgg	aacttcaat	accgagcaa	ggagcgcgac	ctcccgacgc	ggggaggcta	1080
ttctgcccac	ttggggacac	ttcccccgcc	gtggcaggac	ccgctttctc	gaaaggctct	1140
ccttgacgct	gcttagacgc	tggatttttt	tcgggtagt	gaaaaccagc	agcctcccg	1200
gacgatgccc	ctcaacgtta	gcttcaccaa	caggaactat	gacctcgact	acgactcggt	1260
gcagccgtat	ttctactgcg	acgaggagga	gaacttctac	cagcagcagc	agcagagcga	1320
ggctgcagcc	cccggcgcc	agcgaggata	tctggaagaa	attcgagctg	ctgcccaccc	1380
cgccccctgt	ccctagccgc	cgctccgggc	tctgctcgcc	ctcctacgtt	gcggtcacac	1440
ccttctccct	tcggggagac	aacgacggcg	gtggcgggag	cttctccacg	gccgaccagc	1500
tggagatggg	gaccgagctg	ctggggaggag	acatgggtgaa	ccagagtttc	atctgcgacc	1560
cggaagcaga	gaccttcaat	aaaaacatca	tcattccagga	ctgtatgtgg	agcggcttct	1620
cgcccgccgc	caagctcgtc	tcagagaagc	tgccctccta	ccaggctgcg	cgcaagaca	1680
gcggcagccc	gaacccccgc	cgccggccaca	gcgtctgctc	cacctccagc	ttgtacctgc	1740
aggatctgag	cgccgcggcc	tcagagtgc	tcgacccctc	ggtggtcttc	ccctaccctc	1800
tcaacgacag	cagctcgccc	aagtctcgcc	cctcgcaaga	ctccagcgcc	ttctctccgt	1860
cctcggtatc	tctgctctcc	tcgacggagt	cctccccgca	gggcagcccc	gagccccctg	1920
tgctccatga	ggagacaccg	cccaccacca	gcagcgactc	tgaggaggaa	caagaagatg	1980
aggaagaaat	cgatgttgtt	tctgtggaaa	agaggcaggc	tcctggcaaa	aggtcagagt	2040
ctggatcacc	ttctgctgga	ggccacagca	aacctctctc	cagccccact	gtcctcaaga	2100
ggtgccacgt	ctccacacat	cagcacaact	acgcagcgcc	tccctccact	cggaaggact	2160
atcctgctgc	caagaggggc	aagttggaca	gtgtcagagt	cctgagacag	atcagcaaca	2220
accgaaaaatg	caccagcccc	aggtcctcgg	acaccgagga	gaatgtcaag	aggcgaacac	2280
acaacgtctt	ggagcgccag	aggaggaacg	agctaaaacg	gagctttttt	gccctgcgtg	2340
accagatccc	ggagttggaa	aacaatgaaa	aggcccccaa	gtagttatc	cttaaaaaag	2400
ccacagcata	catcctgtcc	gtccaagcag	aggagcaaaa	gtcattttct	gaagaggact	2460
tgttcgcgaa	acgacgagaa	cagttgaaac	acaaacttga	acagctacgg	aactcttggt	2520
cgtaaggaaa	agtaaggaaa	acgattcctt	ctaacagaaa	tgtcctgagc	aatcacctat	2580
gaactgtgtt	caaatgcacg	atcaaatgca	acctcacaac	cttggctgag	tcttgagact	2640
gaaagattta	gccataatgt	aaactgcctc	aaattggact	ttgggcataa	aagaactttt	2700
ttatgcttac	catctttttt	ttttctttta	cagatttgta	tttaagaatt	gttttttaaa	2760
aatttttaaga	tttacacaat	gtttctctgt	aaatatggcc	attaaatgta	aataacttta	2820
ataaaacggt	tatacagtt	acacagaatt	tcaatcctag	tatatagtac	ctagtattat	2880
aggtactata	aaccttaatt	ttttttattt	aagttacatt	tgctttttta	agttgatttt	2940
tttctattgt	tttttagaaaa	aataaaataa	ctggcaataa	tatcattgag	ccaaaa	2996

<210> 181
 <211> 3303
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1702374

<220>
 <221> unsure
 <222> 3216
 <223> a, t, c, g, or other

<400> 181	
aagctggtgg	ggttggggag
gacacctcct	tcgcccggcc
gcggacatgg	actacgactc
ttctaccgct	ccacggcgcc
ccccccacgt	cgccgctcgt
ggccccccgg	agccgtggcc
gaacgagagc	ggcaccgggt
gtaccagcac	cagcgaggac
gggcttgggt	gggcttgggt
cggagggtgc	
ccggcagccg	actgtgccga
cagcacgtcc	ccccttccct
tattttctacg	actatgactg
atctgggaaga	aattcgagct
cccgggcgag	gggaccgggc
accggagacg	aagcggaatc
gggaccgggg	60
cccgcaggga	120
cggggaggat	180
ggtgcatcgc	240
ccccgggatt	300
ccggggccac	360


```

tcgaaaggct ggggcaggaa ctacgcctcc atcatagcc gtgactgcat gtggagcggc 420
ttctcggccc gggaacggct ggagagagct gtgagcgacc ggctcgctcc tggcgcgccc 480
cggggggaacc cgcccaaggc gtccgcgcgc cgggactgca ctcccagcct cgaagcgggc 540
aacccggcgc cgcccgcccc ctgtccgctg gggaaccca agaccagggc ctgctccggg 600
tccgagagcc caagcgactc ggagaatgaa gaaattgatg ttgtgacagt agagaagagg 660
cagtcctctgg gtattcggaa gccgggtcacc atcacgggtg gagcagaccc cctggatccc 720
tgcatgaagc atttccacat ctccatccat cagcaacagc acaactatgc tgcccgtttt 780
cctccagaaa gctgctccca agaagaggct tcagagaggg gtccccaaga agaggttctg 840
gagagagatg ctgcagggga aaaggaagat gaggaggatg aagagattgt gagtccccc 900
cctgtagaaa gtgagggtgc ccagtcctgc caccccaac ctgtcagttc tgatactgag 960
gatgtgacca agaggaagaa tcacaacttc ctggagcgca agaggcggaa tgacctgcgt 1020
tcgcgattct tggcgctgag ggaccagggtg cccaccctgg ccagctgctc caaggccccc 1080
aaagttagtga tcctaagcaa ggccttggaa tacttgcaag ccctgggtggg ggctgagaag 1140
aggatggcta cagagaaaag ccagctccga tgcgggcagc agcagttgca gaaaagaatt 1200
gcatacctca gtggctacta actgaccaa aagcctgaca gttctgtctt acgaagacac 1260
aagtttattt tttaacctcc ctctccctct tagtaatttg cacatttttg ttatggtggg 1320
acagtctgga cagtagatcc cagaatgcat tgcagccggg gcacacacaa taaaggcttg 1380
cattcttggg aaccttgaaa ccagctctc cctcttccct gactcatggg agtgctgtat 1440
gttctctggc gcctttggct tcccagcagg cagctgactg aggagccttg gggctgcct 1500
agctcactag ctctgaagaa aaggctgaca gatgctatgc aacagggtggg ggatgtgtc 1560
aggggctcca gcctgcatga aatctcacac tctgtatgag ttaagctag gaaaggatgc 1620
tcccactggg tgtctctggg gtgatgcaag gacagctggg cctggatgct ctcccagagg 1680
ctcctttttc cagaagacac acgagctgtc ttgggtgaag acaagcttgc agacttgatc 1740
aacattgacc attacctcac tgtcagacac ttacagtag ccaaggagtt ggaaaccttt 1800
atataattat atgttagctg acccccttcc tccactccc aatgctgcga ccctgggaac 1860
acttaaaaag cttggcctct agattctttg tctacagagc cctctgggct ctctcctctg 1920
agggagggga ctttcttccc tcacaaggga cttttttgtt ccattatgcc ttgttatgca 1980
atgggctcta cagcaccctt tcccacaggt cagaaatatt tccccagac acagggaat 2040
cggctcctagc ctggggcctg gggatagctt ggagtccttg cccatgaact tgatccctgc 2100
ccagggtgtt tccgaggggc acttgaggcc cagtcttttc tcaaggcagg tgtaagacac 2160
ctcagagggg gaactgtact gctgcctct tcccacctgc ctcatctcaa tccttgagcg 2220
gcaagtttga agttctctct gaaccatgca aatctgtcct cctcatgcaa ttccaaggag 2280
cttgcctggc ctgcagccac ccttgggccc ctccagcct gccatgcaa tcagatatct 2340
ttcccagaat ctgggcgttt ctgaagtttt ggggagagct gttgggactc atccatccag 2400
tgcctcagaa ggtgaacttg cttctgggtg gttttaaagg aacctccagg agatatgctt 2460
agccaacctt gatggatttt accccagctg gactcggcag ctccaagtg aatccacgtg 2520
cagctcttag tctgggaaag tcaccaacc tagcagttgt catgtgggta acctcaggca 2580
cctctaagcc tgtcctggaa gaaggaccag cagccctcc agaactctgc ctaggacagc 2640
aggtgctctg tggctctggg tttggaagt ggggggtggg aggggggtgg aagtaagtac 2700
tatatatggc tctggaaaac cagctgctac ttccaaatct attgtccata atggtttctt 2760
tctgaggttg cttcttggcc tcagaggacc ctaggggatg tttggaataa gcctctctac 2820
ccttctggag catggtttac aaaagccagc tgacttcttg aattgtctat ggaggacagt 2880
ttgggtgtg gttactgatg tctcaactga atagcttgtg ttttataagc tgctgttggc 2940
tattatgctg ggggagctt tttttttat ttgtatgctt ttgcaaagtg 3000
gtgttaactg ttttgtaca aggaaaaaaa actcttgggg caatttctctg ttgcaagggt 3060
ctgatttatt ttgaaaggca agttcacctg aaattttgta tttagttgtg attactgatt 3120
gcctgatttt aaaatgttgc cttctgggac atcttctaataaaaagatttc tcaaactatgt 3180
cagatggggg gcagcttatg ccacctcaa cctccntcaa ccacggaaaa actaatttca 3240
aggtaagccc acaagtgatc acagagggtg gcacttctct aacctgttg ctaacctggg 3300
cac 3303

```

<210> 182

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 427883.47

<400> 182

```

ggcaggaatg tctgaggttg caacacttct cttcagccag acagcactgg ccagtttggg 60
gtctgtccat cctgcaggcc acaagctctg gatgaggaac ttgaggcaag tcaccagccc 120
ctgatacttt cgcctaaaag agcaaggact agagttectg acctccaggc cagtccctga 180
tcctgacctt aatgttatcg cggaatgatg gcccagggtc cctcagagca ggaactccac 240
tatgcatctc tgcagaggct gccagtgcgc gacctgacct caggggcaga 300
gacaagagag gcaccaagga ggatccaaga gctgactatg cctgcatttg ctgagaacaa 360

```

accacactga gcacccacaga caccttctct aaccacaggcg ggtggacagg gtccccctgt 420
ggtccagcca gtaaaaacca tgggtcccccc 450

<210> 183
<211> 1643
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 093687.6

<400> 183
gccagctgc gcgcgccttg ggattgactg tccacgctcg cccggctcgt ccgacgcgcc 60
ctccgccagc cgacagacac agccgcacgc actgcccgtgt tctccctgcg gctcggacac 120
atagtatgac cattaggtgt ttctgtctccc acccattttc tatggaaaac caaggggatc 180
gggccatgat agccactggc agctttgaag aacgggacac ctttagagaa gcttgatctt 240
ggaggcctca ccgtgagacc ttacaaagcc ggattccggc agagtctctc tatctcgtct 300
tgtgtctgat taaagggtgc cctgtctctc agtttttctc catctcctgg gacgtagcag 360
gaaatcagca tcatggttgg gttcaaggcc acagatgtgc cccctactgc cactgtgaag 420
tttcttgggg ctggcacagc tgccctgcac gcagatctca tcacctttcc tctggatact 480
gctaaagtcc ggttacagat ccaaggagaa agtcaggggc cagtgcgcgc tacagccagc 540
gccagttacc gcggtgtgat gggcaccatt ctgaccatgg tgcgtactga gggcccccca 600
agcctctaca atgggctggt tgccggcctg cagcgccaaa tgagctttgc ctctgtccgc 660
atcggcctgt atgattctgt caaacagttc tacaccaagg gctctgagca tgccagcatt 720
gggagccgcc tcctagcagg cagcaccaca ggtgccctgg ctgtggctgt ggcccagccc 780
acggatgtgg taaagggtccg attccaagct caggcccggg ctggaggtgg tcggagatac 840
caaagcaccg tcaatgccta caagaccatt gcccgagagg aagggttccg gggcctctgg 900
aaaggacct ctcccaatgt tgctcgtaat gccattgtca actgtgctga gctggtgacc 960
tatgaacctc tcaaggatgc cctcctgaaa gccaacctca tgacagatga cctcccttgc 1020
cacttcaact ctgccttttg ggcaggcttc tgcaccactg tcctcgcctc ccctgtagac 1080
gtggtcaaga cgagatacat gaactctgcc ctgggcccagt acagttaggc tggccactgt 1140
gcccttacca tgctccagaa ggagggggccc cgagccttct acaaaagggt catgccctcc 1200
ttctcccgct tgggttctctg gaacgtgggt atgttctgca cctatgagca gctgaaacga 1260
gctctcatgg ctgcctgcac ttcccagagc gctcccttct gagcctctcc tgctgctgac 1320
ctgatcacct ctggctttgt ctctagccgg gccatgcttt ccttttcttc cttctttctc 1380
ttccctccct cccttctctc ctccctctct tccccacctc ttccctccgc tcctttacct 1440
accaccttcc ctctttctac attctcatct actcattgtc tcagtgtctg tggagttgac 1500
atttgacagt gtgggagggc togtaccagc caggatccca agcgtcccgt cccttggaac 1560
gttcagccag aatctctctc ctgcccccca cagcccagcc tagccactt gtcattcata 1620
aagcaagctc aaccttgaaa aat 1643

<210> 184
<211> 2517
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 414100.4

<400> 184
aattcggcac gagatttcta tggctcccat ttgtaataca aggaaatgtc agcttctagt 60
tttgtaacgt cttgcccaag agctgcgacc gttaacttgt ggagtttggg cggcgtcaat 120
gtcaattggg tgcccagcct ttattctgcc ttgtcccata gatttagaaa gaggctgaca 180
catctggtaa ctagtttacg gtcactgtcc tctaagcgac atttagggta agcgacattt 240
ttcagaaacc aaggccctcc ctctcgtctc actagtggga aggggtggaa gaacaggaca 300
gaaagctctt cctcttgtgt gaggcagttg ctgtggaagc cccataggca ggaggccccc 360
ggggcagcac atcctgtctg cttgtgtctg ctgcagagtt ctgtccttgc attggtgccc 420
cctcaggcca ggcctgactg ctgggacctg ggccatgtct ccccccacca ccgccctcct 480
gggcctagtg ctctgcttgg ccagaccat ccacacgcag gaggaagatc tgcccagacc 540
ctccatctcg gctgagccag gcaccgtgat cccctggggg agccatgtga cttctgtgtg 600
ccggggcccg gttggggttc aaacattccg cctggagagg gagagtagat ccacatacaa 660
tgatactgaa gatgtgtctc aagctagtcc atctgagtca gaggccagat tccgattga 720
ctcagtaagt gaaggaaatg ccgggcctta tattataagc cccctaaatg 780
gtctgagcag agtgactacc tggagctgct ggtgaaagaa acctctggag gcccgactc 840
cccggacaca gagcccggtc cctcagctgg acccacgcag aggcctcggg acaacagtca 900

```

caatgagcat. gcacctgctt cccaaggcct gaaagctgag catctgtata ttctcatcgg 960
ggtctcagtg gtcttctctt tctgtctctt cctcctgggc ctcttctgcc tccatcgcca 1020
gaatcagata aagcaggggc cccccagaag caaggacgag gaggagaagc cacagcagag 1080
gectgacctg gctgttgatg ttctagagag gacagcagac aaggccacag tcaatggact 1140
tcctgagaag gacagagaga cagacacctc ggccctggct gcaggaggtt cccaggaggt 1200
gacgtatgct cagctggacc actgggccct cacacagagg acagcccggg ctgtgtcccc 1260
acagtcacac aagcccatgg ccgagtcctt cactgtatgca gccgttgcca gacactgacc 1320
ccatacccac ctggcctctg cacctgaggg tagaaagtca ctctaggaaa agcctgaagc 1380
agccatttgg aaggettcct gttggattcc tcttcatcta gaaagccagc caggcagctg 1440
tcctggagac aagagctgga gactggaggt ttctaaccag catccagaag gttcgttagc 1500
caggtggtec cttctacaat cgagcagctc cttggacaga ctgtttctca gttatttcca 1560
gagaccagc tacagttccc tggctgtttc tagagacca gctttattca cctgactggt 1620
tcagagacc cagctaaagt cacctgcctg ttctaaaggc ccagctacag ccaatcagcc 1680
gatttcctga gcagtgatgc cacctccaag cttgtcctag gtgtctgctg tgaacctcca 1740
gtgacccag agactttgct gtaattatct gccctgctga ccctaaagac cttcctagaa 1800
gtcaagagct agccttgaga ctgtgctata cacacacagc tgagagccaa gcccagttct 1860
ctgggttgtg ctttactcca cgcatacaata aataattttg aaggcctcac atctggcagc 1920
cccaggcctg gtcctgggtg cataggtctc tcggaccac tctctgcctt cacagttggt 1980
caaagctgag tgagggaac aggacttacg aaaacgtgtc agcgttttct ttttaaaatt 2040
taattgatca ggattgtacg tattcaaggt gtaaaatgtg ataatttgtc gtacacgtac 2100
attgtgcaat gacagtcaca atcaattcct cagcgcaccc atcgccacgg atacgatata 2160
ttagatattc tgaacttgct catcttagga cttgcatttg gtgtcagtggt tttctgacaa 2220
atcacgtgta tcaggaatga atgagggagg tgtggctggg tgaaggcaga gagccgaccc 2280
tacaggtcca catctgcaca tacatgcaca ggaatgcatg ctctcacaca catgcctaca 2340
cacacgccac acacagacat gcacatacac tcacacgccc caggaaatcc aaggaaatcac 2400
tgagcctgct gttggttgag gcatttctga gtatccaccc tacctgtagg gtcagatgta 2460
ctgattgaca cagaaaatta cctatgtac cactaggagg cgcagaatc tcatttg 2517

```

<210> 185
 <211> 897
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 235148.4

```

<400> 185
atgaaagagt gcaagctctc acttcccctt cctgtacagg gcaggttgtg cagctggagg 60
cagagcagtc ctctctgggg agcctgaagc aaacatggat caagaaactg taggcaatgt 120
tgtcctggtg gccatcgta cctcatcag cgtggtccag aatggattct ttgcccataa 180
agtggagcac gaaagcagga ccagaaatgg gaggagcttc cagaggaccg gaacacttgc 240
ctttgagcgg gtctacactg ccaaccagaa ctgtgtagat gcgtacccca ctttctctgc 300
tgtgtcttgg tctgcggggc tactttgcag ccaagttcct gctgcgtttg ctggactgat 360
gtacttgttt gtgaggcaaa agtactttgt cggttaccta ggagagagaa cgcagagcac 420
ccctggctac atatttggga aacgcacat actcttctctg ttctctcatgt ccgttgctgg 480
catattcaac tattacctca tcttcttttt cggaagtgtc tttgaaaact acataaagac 540
gatctccacc accatctccc ctctacttct cattccctaa ctctctgctg aatatggggg 600
tgggtgttctc atctaataca tacctacaag tcatcataat tcagctcttg agagcattct 660
gctcttcttt agatggctgt aaatctattg gccatctggg cttcacagct tgagttaacc 720
ttgcttttcc gggaacaaaa tgatgtcatg tcagctccgc cccttgaaaca tgaccgtggc 780
cccaaatttg ctattcccat gcattttgtt tgtttcttca cttatcctgt tctctgaaga 840
tgttttgtga ccaggtttgt gttttcttaa aataaaatgc agagacatgt tttaaaaa 897

```

<210> 186
 <211> 1560
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 430039.3

<220>
 <221> unsure
 <222> 334
 <223> a, t, c, g, or other

```

<400> 186
agacacagaa ccctagatgc cctgcagaat ccttctgtt acggtcccc tccctgaaac 60
atccttcatt gcaatatttc caggaaagga agggggctgg ctcgaggaa gagagggtgg 120
gaggtgatca ggggttcacag aggagggaac tgaatgacat cccaggatta cataaactgt 180
cagaggcagc cgaagagttc acaagtgtga agcctggaaag ccggcggttg ccgtgtgtga 240
ggaaagaagc taaagcactt ccagagcctg tccggagctc agagggttcgg aagacttatc 300
gaccatggag cgcgcgtcct gcttgttgct gctnctgctg ccgctggtgc acgtctctgc 360
gaccacgcca gaacctgtg agctggacga tgaagatttc cgctgcgtct gcaacttctc 420
cgaacctcag cccgactggt ccgaagcctt ccagtgtgtg tctgcagtag aggtggagat 480
ccatgccggc ggtctcaacc tagagccgtt tctaaagcgc gtcgatgcgg acgccgaccc 540
gcggcagtat gctgacacgg tcaaggctct ccgctgcgg ccgctcacag tgggagccgc 600
acaggttctt gctcagctac tggtaggcgc cctgcgtgtg ctgagctact cccgcctcaa 660
ggaaactgag ctcgaggacc taaagataac cggcaccatg cctccgctgc ctctggaagc 720
cacaggactt gcactttcca gcttgccctt acgcaacgtg tctgtggcga cagggcgttc 780
ttggctcgcc gagctgcagc agtggctcaa gccaggcctc aagggtactga gcattgcca 840
agcacactgt cctgcctttt cctgcgaaca ggttcgcgcc ttcccgcccc ttaccagcct 900
agacctgtct gacaatcctg gactgggcga acgcgactg atggcggctc tctgtcccca 960
caagttcccg gccatccaga atctagcgtt gcgcaacaca ggaatggaga cgccacagg 1020
cgtgtgcgcc gcactggcgg cggcaggtgt gcagccccc acgctagacc tcagccaca 1080
ctcgtgcgcc gccaccgtaa accctagcgc tccgagatgc atgtgggtcca gcgccctgaa 1140
ctccctcaat ctgtcgttcg ctgggctgga acaggtgcct aaaggactgc cagccaagct 1200
cagagtgtct gatctcagct gcaacagact gaacagggcg ccgcagcctg acgagctgcc 1260
cgaggtggat aacctgacac tggacgggaa tcccttctg gtccctggaa ctgccctccc 1320
ccacgagggc tcaatgaact ccggcgtggt cccagcctgt gcacgttcga ccctgtcggg 1380
gggggtgtcg ggaaccttg tgcgtctcca aggggcccgg ggctttgcct aagatccaag 1440
acagaataat gaatggactc aaactgcctt ggcttcaggg gagtccgctc aggacgttga 1500
ggacttttctg accaattcaa ccctttgccc cacctttatt aaaatcttaa acaacgaaaa 1560

```

```

<210> 187
<211> 285
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 2158373F6

```

```

<220>
<221> unsure
<222> 249, 255, 257, 281
<223> a, t, c, g, or other

```

```

<400> 187
tgggtgtgcc tgggtgccgtg gtggcgggtca ctccctctgc tgccagtgtt tggacagaac 60
ccaaattctt tatttttggg aagatattgt gctttacctg tattaacaga aatgtgtgtg 120
tgtgtgttgt ttttttgtaa aggtgaagtt tgtatgttta cctaataatta cctgttttgt 180
atacctgaga gcctgctatg ttcttttttt gttgatccaa aattaaanaa aaaaatacca 240
ccaacaaana aaaaanancag gaacatatga gttgagcaga ntaat 285

```

```

<210> 188
<211> 1202
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 1098815.7

```

```

<220>
<221> unsure
<222> 1170
<223> a, t, c, g, or other

```

```

<400> 188
ggtggatatg gtggcagtg ggatggctat aatggatttg gtaatgatgg aagcaatttt 60
ggaggtgggt gaagctacaa tgattttggg aattacaaca atcagtcttc aaattttgga 120
ccccatgaag ggaggaaatt ttggaggcag aagctctggc ccctatggcg gtggaggcca 180

```

```

atacttttgca aaaccacgaa accaaggtgg ctatggcggt tccagcagca gcagtagcta 240
tggcagtggc agaagatttt aattagggaa caaagcttag caggagagga gagccagaga 300
agtacagggg aagctacagg ttacaacaga tttgtgaact cagccaagca cagtgggtggc 360
agggcctagc tgctacaaag aagacatggt ttagacaaat actcatgtgt atgggcaaaa 420
aactcgagga ctgtatttgt gactaattgt ataacagggt attttagttt ctgttctgtg 480
gaaagtgtaa agcattccaa caaagggttt taatgtagat tttttttttt gcaccccatg 540
ctgttgattg ctaaattgtaa cagtctgac gtgacgctga ataaatgtct tttttttaat 600
gtgctgtgta aagttagtct actcttaagc catcttggtg aatttcccca acagtgtgaa 660
gttagaattc cttcagggtg atgccagggt ctatttgga tttatataca acctgcttgg 720
gtggagaagc cattgtcttc ggaaccttg gtgtagttga actgatagtt actgttgtga 780
cctgaagttc accattaaaa gggattaccc aagcaaaatc atggaatggg tataaaagtg 840
attgttggca catcctatgc aatatatcta aattgaataa tggtagcaga taaaattata 900
gatgggaatg aagcttgtgt atccattatc atgtgtaatc aataaacgat ttaattctct 960
tgaatgaaat gacaactgta tggatttggg actggcagag atttggactt tccctacca 1020
ctccccctga taataatggt gaatgcttct atcacaattc aagttcaaag ctctgccagg 1080
gaatagaaac tagctgctgg ctaatgccgc tccataaatc cgagatttgg aagtgtctgg 1140
gaggcctttt aaaaataact aatatcagan agcattttta tgaacgtaaa gataggctta 1200
ca

```

<210> 189
 <211> 1417
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 474491.18

```

<400> 189
gtcagcgtg cacccttctt tgtgctcggg ttaggaggag ctagggctgc catcgggccc 60
gtgcagatac ggggttgctc ttttgctcat aagaggggct tcgctggcag tctgaacggc 120
aacgcggtaa aaatattgct tcgggtgggtg acgcgggtaca gctgcccag ggcttctgta 180
acgggaatgc cgaagcgtgg gaaaaaggga gcgggtggcgg aagacgggga tgagctcagg 240
acagagccag aggcacaaga gagtaagacg gccgcaaaga aaaatgacaa agaggcagca 300
ggagaggccc cagccctgta tgaggacccc ccagatcaga aaacctcacc cagtggcaaa 360
cctgccacac tgcaagatct gctcttggaa tgtggatggg cttcgagcct ggattaagaa 420
gaaaggatta gattgggtaa aggaagaagc ccagatata ctgtgccttc aagagaccaa 480
atgttcagag aacaaactac cagctgaact tcaggagctg cctggactct ctcataata 540
ctggtcagct ccttcggaca aggaagggtg cagtggcgtg ggcctgcttt cccgccagt 600
cccactcaaa gtttcttacg gcataggcga tgaggagcat gatcagggaag gccgggtgat 660
tgtggtgaa tttgactcgt ttgtgctggt aacagcata gtacctaatg caggccgagg 720
tctggtacga ctggagtacc ggcagcgtg ggatgaagcc tttcgcaagt tcctgaagg 780
cctggcttcc cgaaagcccc ttgtgctgtg tggagacctc aatgtggcac atgaagaaat 840
tgaccttcgc aaccccaagg ggaacaaaaa gaatgctggc ttcacgccac aagagcgcca 900
aggcttcggg gaattactgc aggtctgtgc actggctgac agctttaggc acctctacc 960
caacacaccc tatgcctaca ccttttggac ttatatgatg aatgctcgat ccaagaatgt 1020
tggttggccc ttgattactt tttgttgtcc catctctgtt acctgcattg tgtgacagca 1080
agatccgttc caaggccctc ggcagtgatc actgtcctat caccctatac ctagcactgt 1140
gacaccaccc ctaaactact ttgagcctgg gaaataagcc cctcaacta ccattccttc 1200
tttaaacact cttcagagaa atctgcattc tatttctcat gtataaaact aggaatcctc 1260
caaccaggct cctgtgatag agttctttta agcccaagat tttttatttg agggttttt 1320
gttttttaaa aaaaaaattg aacaaagact actaatgact ttgtttgaat tatccacatg 1380
aaaataaaga gccatagttt caaaaaaaaaa aaaaagg

```

<210> 190
 <211> 1487
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 474491.19

<220>
 <221> unsure
 <222> 1408
 <223> a, t, c, g, or other

<400> 190.

accacgtgg	gggctcagcg	tgcacccttc	tttgtgctcg	ggttaggagg	agctaggctg	60
ccatcgggcc	ggtgcagata	cggtgttgc	cttttgc	taagaggggc	ttcgctgggc	120
agtctgaacg	gcaagcttga	gtcaggacc	ttaatga	tcctcaattg	gctggagggc	180
agatctcgcg	agtagggcaa	cgcggtaaaa	atattgcttc	ggtgggtgac	gcggtacagc	240
tgccaaaggg	cggttcgtaac	gggaatgcgc	aagcgtggga	aaaagggagc	ggtggcgga	300
gacggggatg	agctcaggac	agagccagag	gccaagaaga	gtaagacggc	cgcaaagaaa	360
aatgacaaag	aggcagcagg	agagggccca	gccctgtatg	aggaccccc	agatcagaaa	420
acctcaccca	gtggcaaacc	tgccacactc	aagatctgct	cttggaatgt	ggatgggctt	480
cgagcctgga	ttaagaagaa	aggattagat	tgggtaaagg	aagaagcccc	agatatactg	540
tgccttcaag	agaccaaag	ttcagagaac	aaactaccag	ctgaacttca	ggagctgcct	600
ggactctctc	atcaatactg	gtcagctcct	tcggacaagg	aagggtagac	tggcgtgggc	660
ctgctttccc	gccagtggcc	actcaaagtt	tcttacggca	taggcgatga	ggagcatgat	720
caggaaaggg	gggtgattgt	ggctgaattt	gactcgtttg	tgctggtaac	agcatatgta	780
cctaatagcag	gccgaggtct	ggtacgactg	gagtagccgc	agcgtgggga	tgaagccttt	840
cgcaagttcc	tgaaggccct	ggcttcccga	aagccccctg	tgctgtgtgg	agacctcaat	900
gtggcacatg	aagaaattga	ccttcgcaac	cccaagggga	acaaaaagaa	tgctggcttc	960
acgccacaag	agcgccaagg	cttcggggaa	ttactgcagg	ctgtgccact	ggctgacagc	1020
tttaggcacc	tctaccccaa	cacaccctat	gcctacacct	tttgactta	tatgatgaat	1080
gctcgatcca	agaatgttgg	ttggcgccct	gattactttt	tggtgtccca	ctctctgtta	1140
cctgcattgt	gtgacagcaa	gatccgttcc	aaggccctcg	gcagtgatca	ctgtcctatc	1200
acctatatac	tagcacgtgt	acaccacccc	taaatcactt	tgagcctggg	aaataagccc	1260
cctcaactac	cattccttct	ttaaacactc	ttcagagaaa	tctgcattct	atttctcatg	1320
tataaaacta	ggaatctctc	aaccaggctc	ctgtgataga	gttcttttaa	gccccagatt	1380
ttttatttga	gggttttttg	ttttttanaa	aaaaattgaa	caaagactac	taatgacttt	1440
gtttgaatta	tccacatgaa	aataaagagc	catagtttca	aaaaaaa		1487

<210> 191

<211> 2609

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 419031.5

<220>

<221> unsure

<222> 2549

<223> a, t, c, g, or other

<400> 191

cacatgggtg	aagggcatat	aagctctctg	aagtcctctt	ctccctcctc	ctcaggttct	60
ctatcgacga	gtctggtagc	tgagcggttg	gctgtaggtc	gctgtgctgt	gtgatcccc	120
agagccatgc	ccgagatagt	ggatacctgt	tcgttggcct	ctccggcttc	cgtctgccgg	180
accaagcacc	tgcactcgcg	ctgcagcgtc	gactttactc	gccggacgct	gaccgggact	240
gctgctctca	cggtccagtc	tcaggaggac	aatctgcgca	gcctggtttt	ggatacaaa	300
gaccttataa	tagaaaaagt	agtgatcaat	ggacaagaag	tcaaatatgc	tcttgagaaa	360
agacaaagtt	acaagggatc	gccaatggaa	atctctcttc	ctatcgcttt	gagcaaaaat	420
caagaaattg	ttatagaaat	ttcttttgag	acctctccaa	aatcttctgc	tctccagtgg	480
ctcactcctg	aacagacttc	tggaaggaa	cacctatctc	tctttagtc	gtgccaggcc	540
atccactgca	gagcaatcct	tccttgcag	gacactcctt	ctgtgaaatt	aacctatact	600
gcagaggtgt	ctgtccctaa	agaactgggt	gcacttatga	gtgctattcg	tgatggagaa	660
acacctgacc	cagaagaccc	aagcaggaaa	atatacaaat	tcatacaaaa	agttccaata	720
ccctgctacc	tgattgcttt	agttgttgga	gctttagaaa	gcaggcaaat	tggcccaaga	780
actttgggtg	ggtctgagaa	agagcagggt	gaaaagtctg	cttatgagtt	ttctgagact	840
gaatctatgc	ttaaaatagc	agaagatctg	ggaggaccgt	atgtatgggg	acagtatgac	900
ctattgggtcc	tgccaccatc	cttcccttat	ggtggcatgg	agaatccttg	ccttactttt	960
gtaactccta	ctctactggc	aggcgacaag	tcactctcca	atgtcattgc	acatgaaata	1020
tctcatagct	ggacagggaa	tctagtgaac	caacaaaact	tgggatcact	tttggttaaa	1080
tgaggagacat	actgtgtact	tggaaacgca	caattgcgga	cgattgtttg	gtgaaaagtt	1140
cagacatttt	aatgctctgg	gaggatgggg	agaactacag	aattcggtaa	agacatttgg	1200
ggagacacat	cctttcacca	aacttgtggt	tgatctgaca	gatatagacc	ctgatgtagc	1260
ttattcttca	gttccctatg	agaaggcctt	tgctttactt	ttttaccttg	aacaactgct	1320
tggaggacaa	gagattttcc	taggattctt	aaaagcttat	gttgagaagt	tttccataaa	1380
gagcataact	actgatgact	ggaaggattt	cctgtattcc	tattttaaag	ataagggtga	1440
tgttctcaat	caagttgatt	ggaatgcctg	gctctactct	cctggactgc	ctcccataaa	1500

gccaattat	gatatgactc	tgacaaatgc	ttgtattgcc	ttaagtcaaa	gatggattac	1560
tgccaaagaa	gatgatttaa	attcattcaa	tgccacagac	ctgaaggatc	tctcttctca	1620
tcaattgaat	gagtttttag	cacagacgct	ccagagggca	cctcttccat	tggggcacat	1680
aaagcgaatg	caagaggtgt	acaacttcaa	tgccattaac	aattctgaaa	tacgattcag	1740
atggctgcgg	ctctgcattc	aatccaagtg	ggaggacgca	attccttttg	cgctaaaagat	1800
ggcaactgaa	caaggaagaa	tgaagtttac	ccggccctta	ttcaaggatc	ttgctgcctt	1860
tgacaaatcc	catgatcaag	ctgtccgaac	ctaccaagag	cacaaagcaa	gcatgcatcc	1920
cgtgactgca	atgctggtgg	ggaaagactt	aaaagtggat	taaagacctg	cgtattgatg	1980
attttagaga	tttctctttt	ttaaatggaa	ttcgtaaaga	aataataaac	ttcagctcac	2040
aattaaaact	gtcttttttag	ttttggcttt	ttattgtttt	gttgggtgatt	ttactgaaat	2100
aaagttagag	tacttcttct	taaaatagga	agtcggagga	agaaggacta	accagctccc	2160
tggagtatag	aggaatatgc	tttccctgtc	atgccaccag	gggctatatg	tgccaccttt	2220
caggttgggg	ccaaggaagt	gatttcaatg	tgacaccgga	gagattttga	cctccagacg	2280
tcagccgccc	gttccattgt	ggcacatggt	tcaatctgag	tgttgtttgc	cttagctgtg	2340
gtcggaatag	cttcattggg	tggtagcgtt	gttatcaggt	gtaccgaagc	agtttttgtc	2400
taggttttaa	ggctttgtct	ttcgtttgtc	attagaggat	ttctacgcag	atcatccagg	2460
agtcgggttt	tctttgccag	ttcgagaacc	gataatcatt	taacgagttt	ctatggttaag	2520
gttaggggcc	ctgatgtata	ttatctcant	atccagtgc	taggttttaa	taccggttct	2580
gcgattataa	atgggaaaag	ggctttttt				2609

<210> 192

<211> 5079

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 399658.1

<220>

<221> unsure

<222> 130-151, 4930, 4977, 5068, 5076

<223> a, t, c, g, or other

<400> 192

ctggagcagc	ctctggcagc	agcggggaga	atgggagtg	ggggcgccag	accgccgcgg	60
ggtgtcacgg	ccgccacgaa	gcctgagagg	cgccggggcg	gcccgcgcgg	cttttaaac	120
cgggaaggcn	nnnnnnnnnn	nnnnnnnnnn	ngcagatcgc	ggcgcgccac	aggcgccggg	180
gcggcgccgg	aatggagaga	aagggctcgg	cgccgggggc	caaggggaac	ccgagccctg	240
cccgcgccgg	gagaggggca	gcggccaccc	ccgcgcgtgt	gcgtcccggg	cgccggcgga	300
ggagccccag	cgagggggcca	ggtcgggggc	gcggccgagc	cgcccgagct	catccgacga	360
gcgcacgagt	tcaaaagcca	agggggcgag	tgctacaagg	acaagaaatt	ccgtgaagcc	420
ataggcaaat	accaccgggc	gttgctggag	ctgaaggggc	tgctgccgcc	ccccggggaa	480
cgggagcggg	actcgccgac	ggcctccccg	ctggggggcc	tgaagccggg	ccgcctctcg	540
gaggagcaga	gcaagacggt	ggaagccatc	gagatcgact	gttacaacag	cctggcagcc	600
tgccctgtcc	aggctgagct	ggtaaactat	gaacgagtca	aggaatattg	cctcaaagtc	660
ttgaagaagg	aaggggagaa	cttcaaggcc	ctttaccggg	ctggtgtggc	cttctaccac	720
cttgggggact	atgacaaagc	actctactac	ctgaaagaag	caaggaccca	acaaccaaca	780
gacaccaacg	tgattcggtg	tatccagctg	acggagatga	aactcagccg	atgctcccag	840
agagaaaaag	aagccatgta	accaggaagc	agctccagag	ctgcgcccac	gcctgaccgg	900
ggacttccag	gcattcccctg	gcagagagcc	ccgtcctgga	ttctgtccct	ttctcccacc	960
ttcttctggc	tctctctgtt	tctctctgtt	gcaccccgag	tctttgtctc	ctcccagtac	1020
gaaaaggaga	gatgcaaat	tggaaatctg	taggtcgccc	agacaatgga	gacatcctct	1080
cctctagcag	gtcagcgact	gagagggggc	tgacttctgc	tgggacagct	ggagaggagt	1140
ctcatgggct	gggatgctgt	tgtggctttg	actttggcca	gtgcttctga	cagaggcgga	1200
gcctggcaag	tgtaccatcc	cacaggcagc	aggcacacag	cccatgggct	ggatccttcc	1260
acactttcct	gacagaccag	aaccagagca	tctcgaggca	actgttagaa	atccagggac	1320
gagacaaaca	gagaagcgct	ggtgaagcca	acatagagac	tgtcaatgtg	tacactggag	1380
ttcccacccc	cacccccccac	ccgtcactta	gccctgcct	ccttccccca	ctcgttgtct	1440
tggcttgtgc	tttctctctc	ccccatcggg	gatccgagac	tctgccaagg	ttcacatgcc	1500
actgaagccc	attcagtgcc	ctctgggtgac	cacacatagc	attccccggg	actcccaccc	1560
agcaggcagc	tgtgaccgca	gaagggcagg	atgaagtggg	ccaaggtttg	ggacaggttg	1620
actgtgtagg	tgacagggag	ggaaagatga	tggccagggg	aaagagcatc	gtataggcta	1680
ggggattgaa	ctgtggactg	attcagtgta	aataaaaaaca	aattaacagg	tagtagttcc	1740
tgtcagttct	gttgggaagca	gcccactccc	tcactttttac	tccttctctc	aaccttcaat	1800
cagagctact	tacagcgagg	caggatgggg	ctttccccaa	agcaattggc	cgtttgtcca	1860
gtggcagaca	atgggtggcta	cagcctttgt	gcttttaaga	gtgggctggg	attgtggaga	1920

```

ctgcccagggt gcttggcttt gtcagaactt gtacaatctt cttttgatga aattatctga 1980
actcaacatc tagcacatag aatgtgttca acaaatgctt gttgaatgaa taaattatga 2040
ctgcagactg gctctcctgc cttaaactaa tttcatccca gcctagtctc ctgatgtctg 2100
tgctcgttat gctatgccat gttgcttcag tcaaacaaga aacacttact gagggcatat 2160
tgtttgccca tcattgtgca atatgctgtg ggacatggga tgtgtctca gtcttcaagg 2220
aaatggaagg gtttaagaaat gcatatgaga ttattaccaa tgacaccttt aatttatatg 2280
atgctttaaa attatcagag cacttttcag tatttttctg gtgactagtgtg aaaaagacaa 2340
tggtgtacaa aattaaaata tatacagatg caataatgtg aatagttagg atttattaaa 2400
tgcatatatc tcagatcttt acatctgtat aatctcattt ctttcatgca gttactctgg 2460
gatactgttc ccatttgatg ggtaagaata ttgaaaacca gaaaaattaa ttatcccaag 2520
gttgcatggc ctttagtggc atagctagga tttgaaccag gcctgcctga ctccagagct 2580
ctggctagta tctatgtctat acttagttgc ctctctgtaa gtataatatt gggcaattat 2640
aaccatttga gaacaggaca atatgtatta acctgaaaag tgttcatgat gtcagtata 2700
gtacatgggc tccttatgta tttactcaag ggcccaaaaa gaccagaggc cagaatccct 2760
agtagtcaga gcagtgcag gtcagaaaaa ggcagctgag gtccaatagt tatgtctgtg 2820
tattgtctcat tctacttact gatggagcca gcatgtatct caacaactca cctagcatte 2880
atcacccatc ccagcattg ggaaagggtc acaattaaga ccgaaaggaa acacaaagtt 2940
aaatatgggt taattatgta agcagatgcc ccaccaggc aggatccaat cacagccgag 3000
gggcccagaa gagagcagcg taagttatat tcacatagtt ccccaaaggc tttcaacggg 3060
ggctacagga aggtgctaga aatattgagg ggcctgccat tactcaccta gagctcactc 3120
tctggagaag aggaaaagga agaagctatt tccgctgcca cattctcccc aatccctact 3180
atatatgtct gtcttctctc ttcctcctag ctggctttac atgaccctaa cccaaaacta 3240
ccctatggcc ccacacggga atgtgttcaa acgccccgac cccaccccc accccattc 3300
ccaagcctcc aacttagaac gtttgtgatt tggcagatgg tttgttagga tctgaaggat 3360
gaagagaagg gtagaggta cctggagaat gagttcaaac tgccagggtc ttcccttggt 3420
ctttgtgcgt caggaaggac tccgagtaat tattccctat gcagagacag gagagaggtc 3480
tgttttacat gagtgtgctg gggcagggtc ggacaatcca ggatatgatt gtagccatcc 3540
catgtagaaa gatcaaaaac cagaacgaaa tgaagacagc ctctcagaac ctcatagaac 3600
aagcgtccag gtcacatgct tgtttgtgta cttagatata caggcttact ggaactocat 3660
tactgtgac ctgaagttaa ataatcccaa agagaaaaag ctacctgggg tattgggtta 3720
tggttggggt gataggctg aattttctgt gcattttgct aacaaaggct ttagagcaca 3780
aaaccagggt cattctccct accaaatctt cagcttcctt ctctcatcc ctcccaaaa 3840
caagaactgt gatttaattc cgtacgttgc ggatgtcact gctgacctat gtagctggag 3900
tactaatcag gcatctgacc tgcactgtca tccctgcct ggacttttgc gatggactct 3960
ttgggggaaa aactaacgct ttttaattat tgtgaaagca tcatgtgtgt attgtagaag 4020
ttttaggaaa aaaaggacaa aatccaatcc ataagcttac caccacagac aaacgtgtat 4080
tcttttgaat atacctttta gttctttttg gtgtaaatgt acacacgcac acacagttgt 4140
ggattttttt aaacaaaaac tggatacact gaataactc acagatacaa aattcaaaaa gtacaaactg 4200
gtatttatat tttagaatat gtaatcctac acagatacaa aattcaaaaa gtacaaactg 4260
ctctgtagtc agaagttaaat cttctcccta cccgctctgc cagcatctag tttccctcta 4320
atttattttg catcctagtg gagatgctta cacattgtca aacatatgta tatattcttt 4380
tatcacacac aaatggcagc atattggaca ctttttgttt tttgtctcct ctgttctctc 4440
acttaataat atcacgaaca ttttcggcat atcaaacttt ctcaacagca tcttcattgt 4500
atggatggac ccttttttta tcatcaatcc tcaaatagtg attatttcat ttgttcccaa 4560
tcttcattgt aaatagtgtt gcaactgaca ttcttgtagc taaatttttg acatgtctat 4620
aacgatttcc ttaggataaa ctccaagaag agacttgctt ggctattttt aagaattttg 4680
atacatgttg ccaaccaccc tccagaaagt ttgtaccaaa acgctctcct atttggatcc 4740
tagagagtac cctgtttcct gcaccctaac actaggtatc atcacttate aaatctttcc 4800
caatttggtg gctgggataa tagtatgtca atgttatttt aactttcttt gattcttctc 4860
gaataacatt ttccatagt cttattgacc atttgtactt ctttctttgt gaattttcta 4920
tttatttgan attggtatgt ttattatcaa tttgtaattt tattaagaat attattnttg 4980
tcaagaaatg ctgcaaatat gctttccaag tgctttgctt tcaaattttg tttatggtgc 5040
tttttgatc acataaatc gtaattcngc aattanaaa 5079

```

<210> 193

<211> 4698

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 474913.3

<220>

<221> unsure

<222> 4633

<223> a, t, c, g, or other

<400> 193

```

ggggcccgga cgcattgaggg gggctggcgc gcggtgtctac ggggacgcac cggctaagct 60
gcttctgccc ccgcccggccg cctggggacct tgcgggtgagg ctgcgcgggg cggaggccgc 120
ctccgagcgc caggttttatt cagtcacccat gaagctgctg ctgctgcacc cggccttcca 180
gagctgcctc ctgctgaccc tgccttggtt atggagaacc acccttgagg ctacagcttc 240
atccctgggt gcaccagcta tcagcgtgc ctcttctctg caggatctaa tacatcggta 300
tgccgagggt gacagcctca ctctgcagca gctgaaggcc ctactcaacc acctggatgt 360
gggagtgggc cggggtaatg tcacccagca cgtgcaagga cacaggaacc tctccacgtg 420
cttttagttct ggagacctct tcaactgccca caatttcagc gagcagtcgc ggattgggag 480
cagcgagctc caggagttct gccccacccat cctccagcag ctggattccc gggcctgcac 540
ctcggagaac caggaaaacg aggagaatga gcagacggag gaggggcggc caagcgtgt 600
tgaagtgtgg ggatcaggct tcctctgtgt gaccgtcatc tccctctgct cctcctggg 660
ggccagcgtg gtgccttca tgaagaagac cttttacaag aggtctgtgc tctacttcat 720
agctctggcg attgaaacct tcaactccaa cgtcctcttc cagctcatcc cggaggcatt 780
tggtttcaac cctctggaag attattatgt ctccaagtct gcagtggtgt ttgggggctt 840
ttatcttttc tttttcacag agaagatctt gaagattctt cttaagcaga aaaatgagca 900
tcatcatgga cacagccatt atgctctga gtcgttctcc tccaagaagg accaggagga 960
gggggtgagt gagaagctgc agaacgggga cctggaccac atgattctct agcactgcag 1020
cagtgagctg gacggcaagg cgcctatggt ggacgagaag gtcattgtgg gctcgtcttc 1080
tgtcaggac ctgcaggctt cccagagtgc ttgctactgg ctgaaagggtg tccgctactc 1140
tgatatcggc actctggcct ggatgatcac tctgagcgac ggccctccata atttcatcga 1200
tgccctggcc atcgtgctt ccttactgtt gtcagttttc caaggcatca gcacctcggt 1260
ggccatcttc tgtgaggagt tcccacatga gctaggagac tttgtcatcc tgctcaacgc 1320
tggtgatgag atccaacaag ctctcttctt caacttctct tctgcctgct gctgctacct 1380
gggtctggcc tttggcatcc tggccggcag ccacttctct gccactgga tttttgcgt 1440
agctggagga atgttctgt atatttctct ggtgatagat tccctgaga tgaatgaggt 1500
ctgtcaagag gatgaaagg agggcagcat cttgattcca tttatcatcc agaacctggg 1560
cctcctgact ggattacca tcatgggtgt cctcaccatg tattcaggac agatccagat 1620
tggttagggc tctgccaaga gcctgtggga ctggaagtgc ggccctgggc tgcctgatcg 1680
ccagcccgag gacttaccat ccacaatgca ccacggaaga ggccgttcta tgaaaaactg 1740
acacagactg tattcctgca ttcacaatgct agccgtttgt aaaatgctgt atcctaggaa 1800
taagctgccc tggtaaccag tctctagcta gtgctcttg cctctctctc acctcctttt 1860
ctctcagtga ctctggaacc tgaatgcagc ttacaagaca agcctgactt ttttctctga 1920
ttaccttgga cctctcttgg aaccagtgtc gaaaggtttt gaatccttta cccaacaatg 1980
caaaaataga gccaatggtt ataacttggc agcgaatatc aagagtggaa tccatagttg 2040
ggggcccatg actctagctg ggcaccttgg acctccagct ggccaataga agagacagga 2100
gacaggaagc cttcccatth tttcaaagtc tgttttaatt cctattactt ctctcaaaga 2160
gaacctgaag tcagaacaca tgagcagggt gagaggtgag gcaaggttca tcttgaatgg 2220
gagaggaagt cgaaccactg ctgtgtgtct tctcaggatg ctacttggtt cctactgaga 2280
tgctggatat tgattttgta acagcacctg gtgtttcacg gctgtccgag tgagctaacc 2340
tgccggtgtg gctgcttggg cctcctcttt caggttaacg ctgacagaat ggaggctcag 2400
gctgtctgca agaaaaacag tgggtttggc gtgattttga cctcctcttc cccactgcca 2460
tctctaaga cacttgtag ctgcctccta gaagcacatt ctgagcacat ttgagacctc 2520
tggttagag gggagactgc acaaaactat cctccccagg ttgagacgtc tgcagagtgg 2580
caagctgact ttagaaaatg gggtgccatt tatgtcttac ttagacaagg gtaatcagaa 2640
atggaatcag tgcaggcaaa atttaggatt tgccgcttcc ataaatcaaa gcatgactaa 2700
tagggggtct ctgaaatgta agggcacaaa cttcacttag ggcacgcag atgtttgcag 2760
aatggttggc ctaatgatta tgetacagat ggtttttaa tgaccgtct aggttactgc 2820
ttccttgcaa aaaaagtcga atcctgcatt gaattgaata tgaatttctc taactctctc 2880
cagaaaaatg atggagataa cttgtcttta aaactgtagg ccagccttag ccactgtgga 2940
gcccttgctc ccgagctctg gcttcaaggg gagctctctt ccaggttcac taggtgaatt 3000
gatttattat tatcatattg ataatgtgag attcctttag cactttgggg agcctgtctc 3060
tccagaagcc tttcttagtg gtgcccacag ttggagccca ggggcatgtt ttgcaaaactg 3120
attcatgtgc atggctgaca ggagtactgg ttcactacca atgcctgagc ttttctctta 3180
catagaaaaa ctgtccgctc tcagtaatca caagcagcat ccgttttgtt tctctctctt 3240
gggagacatc tgtcaaacga ggaatattct tgaaaagaac gcttcaatac atttgagaa 3300
gtgatacttt ttttaagttt tgtttttatc ttgcctgttg gcttcaatac atttgagaa 3360
acgtgaaga gggaaaattt cagtgatgga gattctagat taaatatcag gactgatttc 3420
ctggtgggag gattatgggt cagttttacc aaagaaccaa ttcttgaat gttggaatct 3480
aactttttat attgtcatta ttattgttgt ttttaaaccg ttctttgtct tttctgtttt 3540
atttttctca agctgctttc aggagctagc agaaaataac tcaaagttga agactctgga 3600
agattttgct ttaacctaac tcgcattgat gtattaaatt tataatttta gcattcccaa 3660
tagatcctat cattccttaa acataatacc ctttgtcttg gagtagaata ctaagttaga 3720
gttagtgat ttctagttaa ggagaggagc tcaaaactat aatctttaac aaattgaaaa 3780
atgaaatagg gtgttttccc ttttttgca cacttatatt accttaagaa atttcttcc 3840
atagacagct gcctcaaagg gaaatctct ttaaaccgta gttggcgag aggtcagtc 3900
tagtcggagc ttaggagggg cggagacgct cacatcgtct gacttgagtc gccactgatt 3960

```

```

gtggcaacag ctttgcctca tgagtcaaaa attggcaatt tcttttgatt tttagttggt 4020
gaatttgctg tttcaagcat ttgtacatat tagaagtcta aggagtagca agtcagtggg 4080
aggacttttt caccctctggc attagcagct tcgacctcat tttccagatg caccagctcc 4140
tattaataag ttagcaagga aagtgtatgt cactgtcagg aacagtgagg cagggacagg 4200
ggttctgctc cttctcactt caccaccggc acacagcttg cccctgtctt tgcccccata 4260
ggtattttgt gtctagtgtc aaattggagc tattcttcac tggtccttaa ccttgggttt 4320
taaaaagaag gcttctctgt ttgggtagcg taagagctga gtatagtaag tcctcttcca 4380
aagagatggc aatatgctgg gcatctactt taaaacaaag ttgtctgatt tttgcaagag 4440
aggttaggat tttattgttc ttatttcctt ttacagttct gcagttccat cacagtattt 4500
ttttaaataa ctcaggtgta tgagaagaaa ttagaaaaga aaattaactt atgtggactg 4560
taaatgtttt atttgtaaga ttctataaat aaagctatat tctgtaaaaa tgaacgaaa 4620
taaaatcagc atntaatggt atgaatttcc ctttaatcac tgagtccac acatttttat 4680
atcaattcaa aatatttt 4698

```

<210> 194

<211> 1301

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 199898.3

<220>

<221> unsure

<222> 19

<223> a, t, c, g, or other

<400> 194

```

ctggctctga ccgcgctgnc ctggggccga gagccagga ggcgtgtctc agagaaaaga 60
tataagcggc ccccgagcg taaagcggg ccagcggcg agtctccaac tgggagagct 120
gcagctggcc cgagaggagg agaacgctga ggtcggtcgg accaacggac gcgctgaccg 180
ctgccaactg gcagctgcgc gctgccttcc tgctcgcgcc gtgccactaa ggtcactccc 240
gcctccgaga gccagagcc gagatggaaa cggtcagga gctgatcccc ctggccaagg 300
agatgatggc ccagaagcg aaggggaaga tggtagagct gtacgtgctg ggcagccgtg 360
ctggccctct tcggcgtggt gctcgccctg atggagactg tgtgcagccc cttcacggcc 420
gccagacgtc tgcgggacca ggaggcagcc gtggcggagc tgcaggccgc cctggagcga 480
caggctctcc agaagcaagc cctgcaggag aaaggcaagc agcaggacac ggtcctcggc 540
ggccggggccc tgtccaaccg gcagcacgcc tctaggaac tgtgggagac cagcggagtg 600
ggagggagac gcagtagaca gagacagacc gagaaggaa ggcagagacag agggggcgcg 660
cgcacaggag cctgactccg ctgggagagt gcaggagcac gtgctgtttt ttatttgagc 720
ttaacttcag agaaaccgct gacatctaga actgacctac cacaagcatc caccaaagga 780
gtttgggatt gagttttgct gctgtgcagc actgcattgt catgacattt ccaacactgt 840
gtgaattatc taaatgcgtc taccattttg cactagggag gaaggataaa tgctttttat 900
gttattatta ttaattatta caatgaccac cattttgcat tttgaaataa aaaacttttt 960
ataccatata tcatgtaatt cctgagaggt gtggtgtcct ggggtgggaa gcagggaggg 1020
tgagcaggtg ggcgatggtg atgggttctt acctgagcac tgcagaggga gcagcttctt 1080
gaggttcaga cacttgcttc acacctagga acagtatcag agggacacaa ttgaagtgtt 1140
tccttcagag ccagtgttcc tctttggggt ttgtgtgagt tcaccagagt cggaagtgtc 1200
caactttcct tgtgcttgac ttcaaactcc ttgaaagcag acaccacata ttagtgaggc 1260
tttgtattcc cagcgctgtg aatcccatct actcaggagg c 1301

```

<210> 195

<211> 2496

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 253550.14

<400> 195

```

gcgagcactg cggctgggcg ctgaggatca gccgcttctt gcctggattc cacagcttcg 60
cgccgtgtac tgtcgcccca tccctgcgcg cccagcctgc caaggcagcg tgccccgggt 120
gcaggcgctc tgcagcggcg gcgacccacg ctctgggccc ctgcgctgac tctgctgggt 180
ctgctccgcg ggccgcgggt ggccggggct ggccgcagct cggggggcct ggggtcccgt 240
gtgcgctgcg agccgtgcga cgcgcgtgca ctggcccagt gcgcgcctcc gcccgccgtg 300

```

```

tgcgcggagc tgggtgcgcga gccgggctgc ggctgctgcc tgacgtgcgc actgagcgag 360
ggccagccgt gcggcatcta caccgagcgc tgtggctccg gccttcgctg ccagccgtcg 420
cccagcaggc cgcgaccgct gcaggcgcctg ctggacggcc gcgggctctg cgtcaacgct 480
agtgcctgca gccgcctgcg cgctacctg ctgccagcgc cgccagctcc aggaaatgct 540
agtgagtcgg aggaagaccg cagcgccggc agtgtggaga gccgtccgt ctccagcacg 600
caccgggtgt ctgatcccaa gttccacccc ctccattcaa agataatcat catcaagaaa 660
gggcatgcta aagacagcca gcgctacaaa gttgactacg agtctcagag cacagatacc 720
cagaacttct cctccgagtc caagcgggag acagaatatg gtccctgccg tagagaaatg 780
gaagacacac tgaatcacct gaagtccctc aatgtgctga gtcccagggg tgtacacatt 840
cccaactgtg acaagaaggg attttataag aaaaagcagt gtcgcccttc caaaggcagg 900
aagcggggct tctgctgggt tgtggataag tatgggcagc ctctcccagg ctacaccacc 960
aaggggaagg aggacgtgca ctgctacagc atgcagagca agtagacgcc tgccgcaagg 1020
ttaatgtgga gctcaaatat gccttatttt gcacaaaaga ctgccaagga catgaccagc 1080
agctggctac agcctcgatt tatattttctg tttgtgggtga actgattttt tttaaaccaa 1140
agtttagaaa gaggtttttg aaatgcctat ggtttctttg aatggtaaac ttgagcatct 1200
tttcactttc cagtagtcag caaagagcag tttgaatttt cttgtcgctt cctatcaaaa 1260
tattcagaga ctcgagcaca gcacccagac ttcattgcgc cgtggaatgc tcaccacatg 1320
ttggtcgaag cggccgacca ctgactttgt gacttagggc gctgtgttgc ctatgtagag 1380
aacacgcttc accccactc cccgtacagt gcgcacaggc tttatcgaga ataggaaaac 1440
ctttaaacc cggtcacccg gacatcccaa cgcatgctcc tggagctcac agccttctgt 1500
gggtgtcatt ctgaaacaag ggcgtggatc cctcaaccaa gaagaatgtt tatgtcttca 1560
agtgtacgtg actgcttggg gactatttga gaaaataagg tggagtcta cttgttttaa 1620
aaatatgtat ctaagaatgt tctagggcac tctgggaacc tataaaggca ggtatttcgg 1680
gccctctctc tcaggaatct tctgaagac atggcccagt cgaaggccca ggatggcttt 1740
tgctgcggcc ccgtggggta ggagggacag agagacaggg agagtacgcc tccacattca 1800
gaggcatcac aagtaatggc acaattcttc ggtgactgc agaaaatagt gttttgtagt 1860
tcaacaactc aagacgaagc ttattttctga ggataagctc tttaaaggca aagctttatt 1920
ttcatctctc atcttttctc ctcttagca caatgtaaaa aagaatagta atatcagaac 1980
aggaaggagg aatggcttgc tggggagccc atccaggaca ctgggagcac atagagattc 2040
acccatgttt gttgaactta gagtcattct catgcttttc tttataatc acacatatat 2100
gcagagaaga tatgttcttg ttaacattgt atacaacata gcccacaata tagtaagatc 2160
tatactagat aatcctagat gaaatgttag agatgctatt tgatacaact gtggccatga 2220
ctgaggaaag gagctcacgc ccagagactg ggctgctctc ccggaggcca aacccaagaa 2280
ggtctgcaa agtcaggctc agggagactc tgcctgctg cagacctcgg tgtggacaca 2340
cgctgcatag agctctcctt gaaaacagag ggtctcaag acattctgcc tacctattag 2400
cttttcttta tttttttaac tttttggggg gaaaagtatt tttgagaagt ttgtcttgca 2460
atgtatttat aaatagtaaa taaagttttt accatt 2496

```

<210> 196

<211> 4324

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 331597.2

<220>

<221> unsure

<222> 4073, 4082

<223> a, t, c, g, or other

<400> 196

```

attggaagaa gaagcatagt atagaagaaa ggcaaacaca acacattcaa cctctgccac 60
catggggaac tgggctgtga atgaggggct ctccattttt gtcattcttg tttggctggg 120
gttgaacgtc ttctctcttg tctggtatta ccgggtttat gatattccac ctaagttctt 180
ttacacaaga aaacttcttg ggtcagcact ggcaactggc agggccctg cagcctgcct 240
gaatttcaac tgcattgtga ttctcttgcc agtctgtcga aatctgctgt ccttcctcag 300
gggttcagat gcgtgctgct caacaagagt tcgaagacaa ctggacagga atctcacctt 360
tcataaaatg gtggcatgga tgattgcact tcaactctgc attcacacca ttgcacatct 420
atttaagtgt gaatggctgt tgaatgcccg agtcaataat tctgatcctt attcagtagc 480
actctctgaa cttggagaca ggcaaaatga aagtatatc aattttgtc gaaagagaat 540
aaagaaccct gaaggaggcc tgtacctggc tgtgacctg ttggcaggca tcaactggagt 600
tgtcatcacg ctgtgcctca tattaattat cacttctctc accaaaacca tccggaggct 660
ttactttgaa gtcttttggg acacacatca tctctttgtg atcttcttca ttggccttgc 720
catccatgga gctgaacgaa ttgtactgg gcagaccgca gagagtttgg ctgtgcataa 780
tataacagtt tgtgaacaaa aaatctcaga atggggaaaa ataaaggaa gcccaatccc 840

```

tcagtttgc	ggaaccctc	ctatgacttg	gaaatggata	gtgggtccca	tgtttctgta	900
tctctgtgag	aggttgggtg	ggttttggcg	atctcaacag	aaggtgggtca	tcaccaaggt	960
ggctactcac	cctttcaaaa	ccatcgagct	acagatgaag	aagaaggggt	tcaaaatgga	1020
agtgggacaa	tacatttttg	tcaagtcccc	aaaggtgtcc	aagctggagt	ggcacccttt	1080
tacactgaca	tccgcccctg	aggaagactt	cttttagtacc	catatccgca	tcgttgggga	1140
ctggacagag	gggctgttca	atgcttgtgg	ctgtgataag	caggagtttc	aagatgcgtg	1200
gaaactacct	aagatagcgg	ttgatgggcc	ctttggcact	gccagtgaag	atgtgttcag	1260
ctatgaggtg	gtgatgttag	tgggagcagg	gattggggtc	acacccttcg	catccattct	1320
caagtgcagtc	tggtacaaa	attgcaataa	cgccaccaat	ctgaagctca	aaaagatcta	1380
cttctacttg	ctgtgccggg	acacacatgc	ctttgagtgg	tttgcagatc	tgctgcaact	1440
gctggagagc	cagatgcagg	aaaggaacaa	tgccggcttc	ctcagctaca	acatctacct	1500
cactggctgg	gatgagtctc	aggccaatca	ctttgctgtg	caccatgatg	aggagaaaga	1560
tgatgacaca	ggcctgaac	aaaagacttt	gtatggacgg	ccaactggg	ataatgaatt	1620
caagacaatt	gcaagtcaac	accctaatac	cagaatagga	gttttctct	gtggacctga	1680
agccttggct	gaaaccctga	gtaaacaaag	catctccaac	tctgagtctg	gccctcgggg	1740
agtgcatttc	attttcaaca	agggaaactt	ctaactgtgc	tcttccatga	ggaaataaat	1800
gtgggttgtg	ctgccaaatg	ctcaaataat	gctaattgat	aatataaata	ccccctgctt	1860
aaaaatggac	aaaaagaaac	tataatgtaa	tgtttttccc	ttaaaggaat	gtcaaagatt	1920
gtttgatagt	gataagttac	atttatgtgg	agctctatgg	ttttgagagc	acttttaca	1980
acattatttc	atttttttcc	tctcagtaat	gtcagtggaa	gttagggaaa	agattcttgg	2040
actcaatttt	agaatcaaaa	gggaaaggat	caaaagggtc	agtaacttcc	ctaagattat	2100
gaaactggac	ccagatctag	cccatcttac	ctcaggtttg	atactcttcc	cacaatactg	2160
agctgctga	gaatcctcaa	aatcagtttt	tatatctccc	aaaagaagaa	ggaaaccaag	2220
gagtagctat	atatttctac	tttgtgtcat	ttttgccatc	attattatca	tactgaagga	2280
aattttccag	atcattagga	cataatacat	gttgagagtg	tctcaacact	tagtagtgac	2340
agtagtgaca	tctgagcata	ctccagttta	ctaatacagc	agggttaactg	ggccagatgt	2400
tctttctaca	gaagaatatt	ggattgattg	gagttaatgt	aatactcatc	atttaccact	2460
gtgcttggca	gagagcggat	actcaagtaa	gttttgttaa	atgaatgaat	gaatttagaa	2520
ccacacaatg	ccaagataga	attaatttaa	agccttaaac	aaaatttatc	taaagaaata	2580
acttctatta	ctgtcataga	ccaaaggaat	ctgattctcc	ctagggtcaa	gaacaggcta	2640
aggatactaa	ccaataggat	tgcttgcaca	gttctgtcac	ttcttatttg	aagcatgaaa	2700
aaagagggtt	ggaggtggag	aattaacctc	ctgccatgac	tctggctcat	ctagtccctgc	2760
tccttgtgct	ataaaaataa	tgccagactaa	tttctgtccc	aaagtggctc	tctccagcta	2820
gcccttatga	atatgaact	taggaattgt	gacaaatatg	tatctgatat	ggtcattttgt	2880
tttaataaac	accacccct	tattttccgt	aaatacacac	acaaaatgga	tcgcatctgt	2940
gtgactaatg	gtttatttgt	attatatcat	catcatcatc	ctaaaattaa	caaccagaa	3000
acaaaaatct	ctatacagag	atcaaattca	cactcaatag	tatgttctga	atatatgttc	3060
aagagagagt	ctctaaatca	ctgttagtgt	ggccaagagc	agggttttct	ttttgttctt	3120
agaactgctc	ccatttctgg	gaactaaaac	cagttttatt	tgcccccccc	cttggagcca	3180
caaatgttta	gaactcttca	acttcggtaa	tgaggaaagaa	ggagaaagag	ctgggggaag	3240
ggcagaagac	tggttttagga	ggaaaaggaa	ataaggagaa	aagagaatgg	gagagtgaga	3300
gaaaataaaa	aaggcaaaag	ggagagagag	gggaaggggg	tctcatattg	gtcattccct	3360
gccccagatt	tcttaaggt	tgatatgtat	agaataataa	tgaaggaggt	atacacatat	3420
tgatgttgtt	atggtattga	atccttttaa	atctggtcac	atctggtcac	aaattttgat	3480
gctgaggggg	attattcaag	ggactaggat	gaactaaata	agaactcagt	tgttctttgt	3540
catactacta	ttcctttcgt	ctcccagaat	cctcagggca	ctgagggtag	gtctgacaaa	3600
taaggcctgc	tgtgcgaata	tagcctttct	gaaatgtacc	aggatgggtt	ctgcttagag	3660
acacttaggt	ccagcctgtt	cacactgcac	ctcaggatc	aattcatcta	ttcaacagat	3720
atattattgtg	ttattactat	gagtcaggct	ctgtttattg	tttcaattct	ttacaccaaa	3780
gtatgaactg	gagagggtac	ctcagttata	aggagtctga	gaatattggc	cctttctaac	3840
ctatgtgcac	aattaaaacc	agcttcattt	gttgctccga	gagtgtttct	ccaaggtttt	3900
ctatcttcaa	aaccaactaa	gttatgaaag	tagagagatc	tgccctgtgt	tatccagtta	3960
tgagataaaa	aatgaatata	agagtgcctg	tcattataaa	agtttccctt	tttattctct	4020
caagccacca	gctgccagcc	accagcagcc	agctgocagc	ctagcttttt	ttnttttttt	4080
tnnttttttt	agcacttagt	attttagcatt	tattaacagg	tactctaaga	atgatgaagc	4140
attgttttta	atcttaagac	tatgaagggt	tttcttagtt	cttctgcttt	tgcaatttgtg	4200
tttgtgaaat	ttgaatactt	gcaggctttg	tatgtgaata	attctagcgg	gggacctggg	4260
agataattcc	tacggggaat	tcttaaaact	gtgctcaact	attaaaatga	atgagctttc	4320
tttg						4324

<210> 197
 <211> 815
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<223> Incyte ID No: 997377.1

<400> 197

gtttctgcat	ggccaagagc	cagaccctcc	ctctgggctc	tgctggccca	accaccaag	60
ggatgcttta	tttaaacagt	tccaagtagg	ggagaccagc	tgccctgaa	ccccagaaca	120
accagctgga	tcagttctca	caggagctac	agcgcgagga	ctgggaaaca	tgggtccaaa	180
actgttcaat	tcccaaattt	gtctgcttct	tctgttgggg	cttctggctg	tggagggctc	240
actccatgtc	aaacctccac	agtttacctg	ggctcaatgg	tttgaaacct	agcacatcaa	300
tatgacctcc	cagcaatgca	ccaatgcaat	gcggggcaatt	aacaattatc	gatggcggtg	360
caaaaaacca	aatacttttc	ttcgtacaac	ttttgcta	gtagttaatg	tttgtggtaa	420
ccaaagtata	cgtgcctc	ataacagaac	tctcaacaat	tgcatcgga	gtagattccg	480
ggtgccttta	ctccactgtg	acctcataaa	tccaggtgca	cagaatattt	caaactgcac	540
gtatgcagac	agaccaggaa	ggaggttcta	tgtagttgca	tgtgacaaca	gagatccacg	600
ggattctcca	cggatcctg	tggttccagt	tcacctggat	accaccatct	aagctcctgt	660
atcagactc	ctcatcatca	ctcatctggc	caagctcctt	caatcattag	ccaaagatcc	720
caatccctcc	atgtaactct	ggggtatcag	caactgtcct	catcagtcct	catacccctt	780
cagctttcct	gagctgaagt	cccttgtgaa	ccctg			815

<210> 198

<211> 902

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 042869.3

<220>

<221> unsure

<222> 887

<223> a, t, c, g, or other

<400> 198

ggcagccttt	caggaaagat	gcagccactc	ctgcttctgc	tgggcctttc	tcctaccac	60
tgggctgag	gcaggggaga	tcattccggag	gccgggagag	caggccccac	tcccggccct	120
acatggcgta	tcttcagatc	cagagtccag	caggctcagag	cagatgtgga	gggttctctg	180
tgcgagaaga	ctttgtgctg	acagcagctc	attgctgggg	aagcaatata	aatgtcacc	240
tgggcgcccc	caatatccag	agacgggaaa	acacccagca	acacatcact	gcgcgcagag	300
ccatccgcca	ccctcaatat	aatcagcgga	ccatccagaa	tgacatcatg	ttattgcagc	360
tgagcagaag	agtcagacgg	aatcgaaacg	tgaacccagt	ggctctgcct	agagcccagg	420
agggactgag	accggggacg	ctgtgcactg	tggcgggctg	gggcagggtc	agcatgagga	480
ggggaacaga	tacactccga	gaggtgcagc	tgagagtgca	gagggatagg	cagtgcctcc	540
gcatcttcgg	ttctacgac	ccccgaaggc	agatttgtgt	gggggaccgg	cgggaacgga	600
aggctgcctt	caagggggat	tccggaggcc	ccctgctgtg	taacaatgtg	gccacggca	660
tcgtctccta	tggaaagtgc	tcaggggttc	ctccagaagt	cttcaccagg	gtctcaagtt	720
tcctgccttg	gataaggaca	acaatgagaa	gcttcaaact	gctggatcag	atggagacc	780
ccctgtgact	gactcttctt	ctcggggaca	caggccagct	ccacagtgtt	gccagagcct	840
taataaacgt	ccacagagta	taaataacca	attcctcatt	tgttcantaa	acgtcattca	900
gt						902

<210> 199

<211> 1755

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 248306.1

<220>

<221> unsure

<222> 1751-1752

<223> a, t, c, g, or other

<400> 199

cacactgacg	aggccatgat	tgaatttagg	tgacctatag	acgcgctgta	actacgctcg	60
gaattcggct	cgaggtcacc	tcctcccctt	gtcgcttagg	tccacccgag	ccccctcccc	120

```

cgggccgccc acgagcacga agttggcggg agcctataaa agctgggtgcc ggcgcgaccc 180
gcggacacac agtgcaggcg cccaagccgc cgccgccaga tcggtgccga ttcttgcct 240
gccccgaccg ccagcgcgac catgtcccat cactgggggt acggcaaaca caacggacct 300
gagcactggc ataaggactt cccattggcc aagggagagc gccagtcccc tgttgacatc 360
gacactcata cagcccaagta tgacccttcc ctgaagcccc tgtctgtttc ctatgatcaa 420
gcaacttccc tgaggatcct caacaatggt catgctttca acgtggagtt tgatgactct 480
caggacaaag cagtgcctcaa gggaggaccc ctggatggca ctacagatt gattcagttt 540
cactttcact ggggttccact tgatggacaa ggttcagagc atactgtgga taaaaagaaa 600
tatgtgcag aacttcactt ggttcactgg aacaccaa atggggattt tgggaaagct 660
gtgcagcaac ctgatggact ggccgttcta ggtatttttt tgaaggttgg cagcgcctaaa 720
ccgggccttc agaaagtgtg tgatgtgctg gattccatta aaacaaaggg caagagtgtc 780
gacttcacta acttcgatcc tcgtggcctc ctctctgaat ccctggatta ctggacctac 840
ccaggctcac tgaccacccc tctctctctg gaatgtgtga cctggattgt gctcaaggaa 900
cccatcagcg tcagcagcga gcagggtgtg aaattccgta aacttaactt caatggggag 960
ggtgaacccg aagaactgat ggtggacaac tggcgcaccg ctcagccact gaagaacagg 1020
caaatcaaaag cttccttcaa ataagatggt cccatagtct gtatccaaat aatgaatctt 1080
cgggtgtttc ctttagcta agcacagatc taccttgggtg atttggaccc tggttgcttt 1140
gtgtctagtt ttctagacc ttcatctctt acttgataga ctactaata aaatgtgaag 1200
actagaccaa ttgtcatgct tgacacaact gctgtggctg gttggtgctt tgtttatggt 1260
agtagttttt ctgtaacaca gaatatagga taagaaataa gaataaagta ccttgacttt 1320
gttcacagca tgtaggtgta tgagcactca caattgttga ctaaaatgct gcttttaaaa 1380
cataggaaag tagaatggtt gagtgc aaatgcaca agataaattg agctagttaa 1440
ggcaaatcag gtaaaatagt catgattcta tgtaattgtaa accagaaaaa ataaatgttc 1500
atgatttcaa gatgttatat taaagaaaaa ctttaaaaat tattatatat ttatagcaaa 1560
gttatcttaa atatgaattc tgttgtaatt taatgacttt tgaattacag agatataaat 1620
gaagtattat ctgtaaaaat tgttataatt agagttgtga tacagagtat atttccattc 1680
agacaaatata ctataactta ataaatattg tatttttagat atattctcta ataaaattca 1740
gaattctaaa nngga
1755

```

<210> 200
 <211> 3298
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 247220.15

<220>
 <221> unsure
 <222> 17, 1531, 1740-1765
 <223> a, t, c, g, or other

```

<400> 200
cctgcctccg tcccgcnegc ccacttcgcc tgcctccgtc ccgccgcgcc acttcgcctg 60
cctccgtccc ccgcccgcgc cgccatgcct gtggccggct cggagctgcc gcgcccggccc 120
ttgccccccg ccgcacagga gcgggacgcc gagccgcgtc cgccgcacgg ggagctgcag 180
tacctggggc agatccaaca catcctccgc tgcggcgctc ggaaggacga ccgcacgggc 240
accggcaccc tgcgggtatt cggcatgcag gcgcgtaca gcctgagaga tgaattccct 300
ctgctgacaa ccaaactgtg gttctggaag ggtgttttgg aggagtgtct gtggtttatc 360
aagggatcca caaatgctaa agagctgtct tccaagggag tgaaaaatctg ggatgccaat 420
ggatcccgag acttttttga cagcctggga ggggcagaat gagaagaagg ggacttgggc 480
ccagtttatg gcttccagtg gaggcatttt acagagatat ggaatcagat 540
tattcaggac agggagtgtg ccaactgcaa agagtgtatt acaccatcaa aaccaaccct 600
gacgacagaa gaatcatcat gtgcgcttgg aatccaagag atcttctctt gatggcgctg 660
cctccatgcc atgcccctctg ccagttctat gtggtgaaca gtgagctgtc ctgccagctg 720
taccagagat cgggagacat gggcctcggt gtgcctttca acatcgccag ctacgccctg 780
ctcacgtaca tgattgcgca catcacgggc ctgaagccag gtgactttat acacactttg 840
ggagatgcac atatttacct gaatcacatc gagccactga aaattcagct tcagcgagaa 900
cccagacctt tcccaaagct caggattcct cgaaaagtgt agaaaaattg tgacttcaaa 960
gctgaagact ttcagattga aggggtacaat ccgcatccaa ctattaaaaa ggaaatggct 1020
gtttaggggt ctttcaaagg agctcgaagg atattgtcag tctttagggg ttgggctgga 1080
tgccgaggta aaagtctctt ttgctctaaa agaaaaagga actaggtcaa aaatctgtcc 1140
gtgacctatc agttattaat ttttaaggat gttgccactg gcaaatgtaa ctgtgccagt 1200
tctttccata ataaaaggct ttgagttaac tcactgaggg tatctgacaa tgctgaggtt 1260
atgaacaag tgaggagaat gaaatgtatg tgccttagc aaaaacatgt atgtgcattt 1320
caatcccacg tacttataaa gaaggttggt gaatttcaca agctattttt ggaatatttt 1380

```

tagaatat	taagaatt	acaagcta	ccctcaa	tgaggga	gagtaac	1440
atcgatca	atgtagag	tggttatg	ctttaag	atagttgt	tatatgtt	1500
tataataa	aagtgttc	cattcgta	ngctttgt	attctgtac	gccacttat	1560
tgctcagtt	cttcctaaa	tagattaa	aactctcct	aagtaaaca	gtgctgtatt	1620
ctggtttgg	tgctactta	aagagtata	tttagaaata	atagtgaata	tattttgccc	1680
tatttttctc	attttaactg	catcttatcc	tcaaaatata	atgaccattt	aggatagagn	1740
nnnnnnnnnn	nnnnnnnnnn	nnnnnataac	cttaaagggt	tatttttaaaa	taatctatgg	1800
actaccattt	ggccctcatt	agcttcagca	tggtgtgact	tctctaataa	tatgcttaga	1860
ttaagcaagg	aaaagatgca	aaaccacttc	ggggttaatc	agtgaatat	tttcccttc	1920
gttgcatacc	agataccccc	gggtgttgca	cgactatttt	tattctgcta	atttatgaca	1980
agtgttaa	agaacaagga	attattccaa	caagttatgc	aacatgttgc	ttattttcaa	2040
attacagttt	aatgtctag	tgccagccct	tgatatagct	atttttgtaa	gaacatcctc	2100
ctggactttt	ggttagtta	atctaaactt	atttaaggat	taagtaggat	aacgtgcatt	2160
gatttgctaa	agaatcaag	taataattac	ttagctgatt	cctgaggggtg	gtatgacttc	2220
tagctgaact	catcttgatc	ggtaggattt	tttaaatacca	tttttgtaaa	actattttcca	2280
agaaatttta	agccctttca	cttcagaaag	aaaaaagttg	ttggggctga	gcacttaatt	2340
ttcttgagca	ggaaggagtt	tcttccaaac	ttcaccatct	ggatactggt	gtttctttac	2400
agattcctcc	tctatttctg	ttgagtagcc	gggatccttg	ggaggcatgt	aggaagcccg	2460
ctggatcatc	acgggatact	tgaaatgctc	atgcagggtg	tcaacatact	cacacacccct	2520
aggaggaggg	aatcagatcg	gggcaatgat	gcctgaagtc	agattattca	cgtgggtgcta	2580
acttaaagca	gaaggagcga	gtaccactca	attgacagtg	ttggccaagg	cttagctgtg	2640
ttaccatgcy	tttctagggc	agtccttaaa	cctctgtgcc	tcaggctcctt	ttcttctaaa	2700
atatagcaat	gtgagggtgg	gactttgatg	acatgaacac	acgaagtccc	tctagagggtt	2760
ttgtgggtgcc	ctttaaaagg	gatcaattca	gactctgtaa	atatccagaa	ttatttggtt	2820
tcctctgggtc	aaaagtcaga	tgaatagatt	aaaatcacca	cattttgtga	tctatttttc	2880
aagaagcggtt	tgtatttttt	cacatggctg	cagcagctgc	caggggcttg	gggttttttt	2940
ggcaggtagg	gtttgggagg	ccattttgtc	actgcctcag	ctgggcatct	aggaagcatt	3000
agcactgtga	ggctttctcg	gtacactttg	tacctggaaa	acaatccgaa	caggtccatg	3060
ggaccacaac	tgaggggaggt	gggacacacc	cacctccatc	caagaaccaa	gacatctaag	3120
gaagcaaacc	cagatgcaga	acaataaaat	acattccata	ctccccaccc	aaaaataaa	3180
atcaccaaat	gaggttcctt	tcagctatac	aaatgattta	gatgaagagc	agaggattta	3240
gaatcagggtc	aatctgtgtt	caggtttctgt	gttctctgca	gtcgaagacc	gttgtata	3298

<210> 201

<211> 10281

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 026662.3

<400> 201

attggggcacc	ggtggcggt	gcggggcagt	ttgaattaga	ctctgggctc	cagcccgccg	60
aagccgcgcc	agaactgtac	tctccgagag	gtcgttttcc	cgtccccgag	agcaagttta	120
tttacaatg	ttggagtaat	aaagaaggca	gaacaaaatg	agctgggctt	tggagaatg	180
gaaagaagg	ctgectacaa	gagctcttca	gaaaattcaa	gagcttgaag	gacagcttga	240
caaactgaag	aaggaaaagc	agcaaaggca	gtttcagctt	gacagtctcg	aggctgcgct	300
gcagaagcaa	aaacagaagg	ttgaaaatga	aaaaaccgag	ggtacaaacc	tgaaaaggga	360
gaatcaaaga	ttgatggaaa	tatgtgaaag	tctggagaaa	actaagcaga	agattttctca	420
tgaacttcaa	gtcaaggagt	cacaagtga	tttccaggaa	ggacaactga	attcaggcaa	480
aaaacaaata	gaaaaacttg	aacaggaact	taaaagggtg	aatcttgagc	ttgaaagaag	540
ccaacaagct	gcgcagtctg	cagatgtctc	tctgaatcca	tgcaatacac	cacaaaaaat	600
ttttacaact	ccactaacac	caagtcaata	ttatagtgg	tccaagtatg	aagatctaaa	660
agaaaaatat	aataaaggag	ttgaagaacg	aaaaagatta	gaggcagagg	ttaaagcctt	720
gcaggctaaa	aaagcaagcc	agactcttcc	acaagccacc	atgaatcacc	gcgacattgc	780
ccggcatcag	gcttcatcat	ctgtgttctc	atggcagcaa	gagaagaccc	caagtcatct	840
ttcatctaat	tctcaaagaa	ctccaattag	gagagatttc	tctgcatctt	acttttctgg	900
ggaacaagag	gtgactccaa	gtcgatcaac	tttgcaaata	gggaaaagag	atgctaatag	960
cagttttctt	gacaatttota	gcagtctctca	tcttttggat	caattaaaag	cgcagaatca	1020
agagcttaaga	atacaagatta	atgagttgga	actacgcctg	caaggacatg	aaaaagaaat	1080
gaaaggccaa	gtgaataagt	ttcaagaact	ccaactccaa	ctggagaaag	caaaagtggga	1140
attaattgaa	aaagagaaag	ttttgaacaa	atgtagggat	gaactagtga	gaacaacagc	1200
acaatacgac	caggcgtcaa	ccaagtatac	tgcatgtgaa	caaaaactga	aaaaattgac	1260
ggaagatttg	agttgtcagc	gacaaaatgc	agaaagtgcc	agatgttctc	tggaaacagaa	1320
aattaaggaa	aaagaaaagg	agtttcaaga	ggagctctcc	cgtcaacagc	gttctttoca	1380
aacactggac	caggagtgc	tccagatgaa	ggccagactc	accaggaggt	tacagcaagc	1440

caagaatatg	cacaacgtcc	tgccaggtga	actggataaa	ctcacatcag	taaagcaaca	1500
gctagaaaac	aatttgaag	agtttaagca	aaagttgtgc	agagctgaac	aggcgttcca	1560
ggcgagtcag	atcaaggaga	atgagctgag	gagaagcatg	gaggaaatga	agaaggaaaa	1620
caacctcctt	aagagtcact	ctgagcaaaa	ggccagagaa	gtctgccacc	tggaggcaga	1680
actcaagaac	atcaaacagt	gtttaaatca	gagccagaat	tttgcagaag	aaatgaaagc	1740
gaagaatacc	tctcaggaaa	ccatgttaag	agatcttcaa	gaaaaataaa	atcagcaaga	1800
aaactccttg	actttagaaa	aactgaagct	tgctgtggct	gatctggaaa	agcagcgaga	1860
ttgttctcaa	gaccttttga	agaaaagaga	acatcacatt	gaacaactta	atgataagtt	1920
aagcaagaca	gagaaagaga	ccaaagcctt	gctgagtgtc	ttagagttaa	aaaaaaaaga	1980
atatgaattg	aaagaagaga	aaactctgtt	ttcttgttgg	aaaagtgaag	acgaaaaact	2040
tttaactcag	atggaatcag	aaaaggaaaa	cttgcagagt	aaaattaatc	acttggaaac	2100
ttgtctgaag	acacagcaaa	taaaaagtca	tgaatacaac	gagagagtaa	gaacgcctgga	2160
gatggacaga	gaaaacctaa	gtgtcgagat	cagaaacctt	cacaacgtgt	tagacagtaa	2220
gtcagtgagg	gttagagacc	agaaactagc	ttatatggag	ctacagcaga	aagctgagtt	2280
ctcagatcag	aaacatcaga	aggaaataga	aaatatgtgt	ttgaagactt	ctcagcttac	2340
tgggcaagtt	gaagatctag	aacacaagct	tcagttactg	tcaaatgaaa	taatggacaa	2400
agaccggtgt	taccaagact	tgcatgccga	atatgagagc	ctcagggatc	tgctaaaatc	2460
caaaagaca	tctctgtgtg	caaatgaaga	tcacagagag	agtcttttgg	cttttgatca	2520
gcagcctgcc	atgcatcatt	cctttgcaaa	tataattgga	gaacaaggaa	gcatgccttc	2580
agagaggagt	gaatgtcgtt	tagaagcaga	ccaaagtcgg	aaaaattctg	ccatcctaca	2640
aatagagttg	gattcacttg	aattttcatt	agagtctcaa	aaacagatga	actcagacct	2700
gcaaaagcag	tgtagaagag	tggtgcgaat	caaaggagaa	atagaagaaa	atctcatgaa	2760
agcagaacag	atgcatcaaa	gttttgtggc	tgaacaaagt	cagcgcatta	gtaagttaca	2820
ggaagacact	tctgtctacc	agaatgttgt	tgctgaaacc	ttaagtgcct	ttgagaacaa	2880
ggaaaaagag	ctgcaacttt	taaatgataa	ggtagaaact	gagcaggcag	agattcaaga	2940
attaaaaaag	agcaaccatc	tacttgaaga	ctctctaaag	gagctacaac	ttttatccga	3000
aaccctaagc	ttggagaaga	aagaaatgag	ttccatcatt	tctctaaata	aaagggaact	3060
tgaagagctg	acccaagaga	atgggactct	taaggaaatt	aatgcacctc	taaatcaaga	3120
gaagatgaac	ttaatccaga	aaagtgcag	ttttgcaaac	tatatagatg	aaaggagaa	3180
aagcatttca	gagttatctg	atcagtacaa	gcaagaaaaa	cttattttac	tacaaagatg	3240
tgaagaaacc	ggaaatgcag	atgaggatct	tagtcaaaaa	tacaaagcag	cacaggaaaa	3300
gaattctaaa	ttagaatgct	tgctaaatga	atgcactagt	ctttgtgaaa	ataggaaaaa	3360
tgagttggaa	cagctaaagg	aagcatttgc	aaagggaacac	caagaattct	taacaaaatt	3420
agcattttgt	gaagaagaa	atcagaatct	gatgctagag	ttggagacag	tgcaagcaagc	3480
tctgagatct	ataacccaaa	caattctaag	caattctaag	agcgaggctg	gtgggttaaa	3540
gcaagaaatc	atgactttaa	aggaagaaca	aaacaaaatg	caaaagggaag	ttaatgactt	3600
attacaagag	aatgaacagc	tgatgaaggt	aatgaagact	aaacatgaat	gtcaaaaatc	3660
agaatcagaa	ccaattagga	actctgtgaa	agaaagagag	agtgcagagaa	atcaatgtaa	3720
ttttaaacct	cagatggatc	ttgaagttaa	agaaatttct	ctagatagtt	ataatgcgca	3780
gttgggtgcaa	ttgaaagcta	tgctaagaaa	taagggaatta	aaacttcagg	aaagtgcagaa	3840
ggagaaggag	tgcttgcagc	atgaattaca	gacaattaga	ggagatcttg	aaaccagcaa	3900
tttgcaagac	atgcagtcac	aagaaattag	tggtccttaa	gactgtgaaa	tagatgcgga	3960
agaaaagtag	atttcagggc	ctcatgagtt	gtcaacaagt	caaaacgaca	atgcacacct	4020
tcagtgtctc	ctgcaaacaa	caatgaacaa	gctgaatgag	ctagagaaaa	tatgtgaaat	4080
actgcaggct	gaaaagtatg	aaactcgtaac	tgagctgaat	gattcaagggt	cagaatgtat	4140
cacagcaact	aggaaaatgg	cagaagaggt	agggaaacta	ctaaatgaag	ttaaaatatt	4200
aaatgatgac	agtggctctc	tccatgggtg	gttagtgga	gacataccag	gaggtgaatt	4260
tggtgaacaa	ccaaatgaac	agcacctgtg	gtctttggct	ccattggacg	agagtaattc	4320
ctacgagcac	ttgacattgt	cagacaaaga	agttcaaatg	cactttgccc	aattgcagaa	4380
gaaattctta	tctttacaaa	gtgaacacaa	aattttacat	gatcagcact	gtcagatgag	4440
ctctaaaatg	tcagagctgc	agacctatgt	tgactcatta	aaggccgaaa	atttggctct	4500
gtcaacgaat	ctgagaaact	ttcaagggtg	cttgggtgaag	gagatgcagc	tgggcttgga	4560
ggaggggctc	gttccatccc	tgtcatcctc	ttgtgtgcct	gacagctcta	gtcttagcag	4620
tttgggagac	tcctcctttt	acagagctct	tttagaacag	acaggagata	tgtctctttt	4680
gagtaattta	gaaggggctg	tttcagcaaa	ccagtgcagt	gtagatgaag	tattttgcag	4740
cagtctgcag	gaggagaatc	tgaccaggaa	agaaacccct	tcggccccag	cgaagggtgt	4800
tgaagagctt	gagtcctctc	gtgaggtgta	ccggcagtc	ctcgagaagc	tagaagagaa	4860
aatggaaagt	caagggatta	tgaaaaataa	ggaaattcaa	gagctcgagc	agttattaag	4920
ttctgaaagg	caagagcttg	actgccttag	gaagcagtat	ttgtcagaaa	atgaacagtg	4980
gcaacagaag	ctgacaagcg	tgactctgga	gatggagtcc	aagttggcgg	cagaaaagaa	5040
acagacggaa	caactgcgga	ttgagctgga	agttagcacga	ctccagctac	aaggtctgga	5100
cttaagttct	cgggtctttg	ttggcatcga	cacagaagat	gctattcaag	gccgaaatga	5160
gagctgtgac	atatcaaaag	aacatacttc	agaaactaca	gaaagaacac	caaagcatga	5220
tgttcatcag	atttgtgata	aagatgctca	gcaggacctc	aatctagaca	ttgagaaaaa	5280
aactgagact	gtgtgcattg	aaccacagcg	agagtgctct	ggggaacagt	ccccagatac	5340
caattatgag	cctccagggg	aagataaaac	ccagggtctc	tcagaatgca	tttctgaatt	5400
gtcattttct	ggtcctaattg	ctttgggtacc	tatggatttc	ctggggaatc	aggaagatat	5460

ccataatctt	caactgcggg	taaaagagac	atcaaagag	aatttgagat	tacttcatgt	5520
gatagaggac	cgtgacagaa	aagttgaaag	tttgctaaat	gaaatgaaag	aattagactc	5580
aaaactccat	ttacaggagg	tacaactaat	gaccaaaatt	gaagcatgca	tagaattgga	5640
aaaaatagtt	ggggaaactt	agaaagaaaa	ctcagattta	agtgaaaaat	tggaatattt	5700
ttcttgtgat	caccaggagt	tactccagag	agtagaaact	tctgaaggcc	tcaattctga	5760
tttagaaatg	catgcagata	aatcatcacg	tgaagatatt	ggagataatg	tggccaaggt	5820
gaatgacagc	tggaggagag	gatttcttga	tgtggaaaat	gagctgagta	ggatcagatc	5880
ggagaaagct	agcattgagc	atgaagccct	ctacctggag	gctgacttag	aggtagttca	5940
aacagagaag	ctatgtttag	aaaaagacaa	tgaaaataag	cagaaggtta	ttgtctgcct	6000
tgaagaagaa	ctctcagtgg	tcacaagtga	gagaaaccag	cttcgtggag	aattagatac	6060
tatgtcaaaa	aaaaccacgg	cactggatca	gttgtctgaa	aaaatgaagg	agaaaacaca	6120
agagcttgag	tctcatcaaa	gtgagtgtct	ccattgcatt	cagggtggcag	aggcagaggt	6180
gaaggaaagc	acggaactct	ttcagacttt	gtcctctgat	gtgagtgagc	tgttaaaaga	6240
caaaactcat	gtccaggaaa	agctgcagag	tttggaaaag	gactcacagg	cactgtcttt	6300
gacaaaatgt	gagctggaaa	accaaattgc	acaactgaat	aaagagaaag	aattgcttgt	6360
caaggaaatct	gaaagcctgc	aggccagact	gagtgaatca	gattatgaaa	agctgaatgt	6420
ctccaaggcc	ttggaggccg	cactgggtgga	gaaagggtgag	ttcgcattga	ggctgagctc	6480
aacacaggag	gaagtgcac	agctgagaag	aggcatcgag	aaactgagag	ttcgcattga	6540
ggccgatgaa	agaagcagc	tgcacatcgc	agagaaactg	aaagaacgag	agcgggagaa	6600
tgattcactt	aaggataaag	ttgagaacct	tgaagggaag	ttgcagacgt	cagaagaaa	6660
ccaggagcta	gtgattcttg	atgccgagaa	ttccaaagca	gaagtagaga	ctctaaaaac	6720
acaaatagaa	gaagtggcca	gaagcctgaa	agtttttgaa	ttagaccttg	tcacgttaag	6780
gtctgaaaaa	gaaaatctga	caaaacaaat	acaagaaaaa	caaggtcagt	tgtcagaact	6840
agacaagtta	ctctcttcat	ttaaaagtct	gttagaagaa	aaggagcaag	cagagataca	6900
gatcaaagaa	gaatctaaaa	ctgcagtgga	gatgcttcag	aatcagttaa	aggagctaaa	6960
tgaggcagta	gcagccttgt	gtggtgacca	agaaattatg	aaggccacag	aacagagtct	7020
agaccaccca	atagaaggga	agcatcagct	gagaaatagc	attgaaaagc	tgagagcccg	7080
cctagaagct	aatgaaaaga	agcagctctg	tgtcttcaaa	caactgaagg	aaagtgaagc	7140
tcatgcagat	ttacttaagg	gtagagtgga	gaaccttgaa	agagagctag	agatagccag	7200
gacaaaccaa	gagcatgcag	ctcttgaggc	agagaattcc	aaaggagagg	tagagacctt	7260
aaaaagcaaaa	atagaaggga	tgacccaag	cttgagaggt	ctggaattag	atgttgttac	7320
tataaggtca	gaaaaagaag	atctgacaaa	tgaattacaa	aaagagcaag	agcgaatata	7380
tgaattagaa	ataataaatt	catcatttga	aaatatattt	caagaaaaag	agcaagagaa	7440
agtacagatg	aaagaaaaat	caagcactgc	catggagatg	cttcaaacac	aattaaaaga	7500
gctcaatgag	agagtggcag	ccctgcataa	tgaccaagaa	gcttgtaagg	ccaaagagca	7560
gaatcttagt	agtcaggtag	agtgctctga	acttgagaag	gctcagttgc	tacaaggcct	7620
tgatgaggcc	aaaaataatt	atattgtttt	gcaatcttca	gtgaatggcc	tcattcaaga	7680
agtagaagat	ggcaagcaga	aactggagaa	gaaggatgaa	gaaatcagta	gactgaaaaa	7740
tcaaattcaa	gaccaagagc	agcttgtctc	taaactgtcc	cagggtggaag	gagagcacca	7800
actttggaag	gagcaaaaact	tagaactgag	aaatctgaca	gtggaattgg	agcagaagat	7860
ccaagtgtca	caatccaaaa	atgcctcttt	gcaggacaca	ttagaagtgc	tgcagagtcc	7920
ttacaagaat	ctagagaatg	agcttgaaat	gacaaaaatg	gacaaaaatg	cctttgttga	7980
aaaagtaaac	aaaatgactg	caaaggaaac	tgagctgcag	agggaaatgc	atgagatggc	8040
acagaaaaca	acagaagctgc	aagaagaact	cagtggagag	aaaaataggg	tagctggaga	8100
gttgcagtta	ctgttggaag	aaataaagag	cagcaaagat	caattgaagg	agctcacact	8160
agaaaatagt	gaattgaaga	agagcctaga	ttgcatgcac	aaagaccagg	tggaaaaggga	8220
agggaaagtg	agagaggaaa	tagctgaata	tcagctacgg	cttcatgaag	ctgaaaagaa	8280
acaccaggct	ttgcttttgg	acacaaacaa	acagtatgaa	gtagaaatcc	agacatacca	8340
agagaaattg	acttctaaag	agaatgtctc	cagttcacag	aagctggaga	tagacctttt	8400
aaagtctagt	aaagaagagc	tcaataattc	attgaaagct	actactcaga	ttttggaaga	8460
attgaagaaa	accaagatgg	acaatctaaa	atatgtaaat	cagttgaaga	aggaaaatga	8520
acgtgccag	gggaaaatga	agttgttgat	caaactcctg	aaacagctgg	aagaggaaaa	8580
ggagatactg	cagaaagaac	tctctcaact	tcaagctgca	caggagaagc	agaaaaacag	8640
tactgttatg	gataccaagg	tcgatgaatt	aacaactgag	atcaaagaac	tgaagaagaa	8700
tcttgaagaa	aaaaccaagg	aggcagatga	atacttggat	aagtactggt	ccttgccttat	8760
aagccatgaa	aagttagaga	aagctaaaaga	gatgttagag	acacaagtgg	cccactctgtg	8820
ttcacagcaa	tctaaacaag	attcccagg	gtctcctttg	ctaggctccag	ttgttccagg	8880
accatctcca	atcccttctg	ttactgaaaa	gaggttatca	tctggccaaa	ataaagcttc	8940
aggcaagagg	caaagatoca	gtggaatatg	ggagaatggt	ggaggacca	cacctgctac	9000
ccagagagc	ttttctaaaa	aaagcaagaa	agcagtcag	agtggtatcc	accctgcaga	9060
agacacggaa	ggtactggag	ttgagccaga	gggacttcca	gaagttgtaa	agaaaagggt	9120
tgctgacatc	ccgacaggaa	agactagccc	atatatcctg	cgaagaacaa	ccatggcaac	9180
tcggaccagc	ccccgcttgg	ctgcacagaa	gttagcgcta	tccccactga	gtctcggcaa	9240
agaaaatctt	gcagagtcc	ccaaaccaac	agctgggtgg	agcagatcac	aaaaggtcaa	9300
agttgctcag	cggagcccag	tagattcagg	caccatcctc	cgagaaccca	ccacgaaatc	9360
cgtcccagtc	aataatcttc	ctgagagaag	tccgactgac	agccccagag	agggcctgag	9420
ggtaagcgca	ggccgacttg	tccccagccc	caaagctgga	ctggagtcca	agggcagtg	9480

```

gaactgtaag gtccagtgaa ggcactttgt gtgtcagtac ccctgggagg tgccagtcac 9540
tgaatagata aggctgtgcc tacaggactt ctcttttagtc agggcatgct ttattagtga 9600
ggagaaaaca attccttaga agtctttaa atattgtact ctttagatct cccatgtgta 9660
ggtattgaaa aagtttgga gcaactgatc cctgttagca ttgccattcc tctactgcaa 9720
tgtaaatagc ataaagctat gtatataaag ctttttggtg atattgtaca attaaaatga 9780
caagcactat atcacaatct ctgtttgtat gtgggtttta cactaaaaaa atgcaaaaca 9840
cattttatto ttctaattaa cagctcctag gaaaatgtag acttttgctt tatgatattc 9900
tatctgtagt atgaggcatg gaatagtttt gtatcgggaa tttctcagag ctgagtaaaa 9960
tgaaggaaaa gcatgttatg tgtttttaag gaaaatgtgc acacatatac atgtaggagt 10020
gtttatcttt ctcttacaat ctgtttttaga catctttgct tatgaaacct gtacatatgt 10080
gtgtgtgggt atgtgtttat ttccagtgag ggctgcaggc ttccatagagg tgtgtctatac 10140
catgcgtctg tcgttgtgct tttttctgtt ttttagaccac ttttttacag ttcttttggtg 10200
agcattgtgc tatctgtga tggattaaca tatagccttt gttttctaata aaaatagtcg 10260
ccttcgtttt ctgtaagaat g

```

<210> 202

<211> 2656

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 977509.3

<400> 202

```

acctgctgac acgctgacgc cttcgagcgc ggcccggggc cgggagcggc cggagcagcc 60
cggtgctcga ccccgggccg gctcccgctc cgggctctgc cggcgggcgg gcgagcgcgg 120
cgcggtccgg gccgggggga tgtctcggcg gacgcgctgc gaggatctgg atgagctgca 180
ctaccaggag acagattcag atgtgccgga gcagagggat agcaagtgca aggtcaaatg 240
gacccatgag gaggacgagc agctgagggc cctggtgagg cagtttgga agcaggactg 300
gaagttcctg gccagccact tccctaaccg cactgcacca gcaatgcccc gtacagggtg 360
ctgagagttt tgaatccaga ccttgtcaag gggccatgga ccaaagagga agacaaaaaa 420
gtcatcgagc tgggttaagaa gtatggcaca aagcagtgga cactgattgc caagcacctg 480
aagggcgggc tggggaagca gtgcccgtga cgctggcaca accacctcaa ccctgaggtg 540
aagaagtctt cctggaccga ggaggaggac cgcacatctc gcgaggccca caaggtgctg 600
ggcaaccgct gggccgagat cgccaagatg ttgccaggga ggacagacaa tgctgtgaag 660
aatcactgga actctaccat caaaaggaag gtggacacag gaggcttctt gagcgagtc 720
aaagactgca agccccagc gtacttgtct ctggagctcg aggacaagga cggcctccag 780
agtccccagc ccacgggaag ccagggaagt cttctgacca actggccctc cgtccctcct 840
accataaagg aggaggaaaa cagtgaggag gaacttgca cagccaccac atcgaaggaa 900
caggagccca tcggtacaga tctggacgca gtgcgaacac cagagccctt ggaggaattc 960
ccgaagcgtg aggaccagga aggtcctcca ccagaaacga gcctgcctta caagtgggtg 1020
gtggaggcag ctaacctcct catccccgtc gtgggttcta gcctctctga agccctggac 1080
ttgatcgagt cggacctga tgcttggtgt gacctgagta aatttgacct ccctgaggaa 1140
ccatctgcag aggacagtat caacaacagc ctagtgcagc tgcaagcgct acatcagcag 1200
caagtctgc caccgcgcca gccttccgcc ctggtggccc agtgtgaccg agtgtagccg 1260
ggatggccac accatctcag acctgagccg gagcagccgg ggcgagctga tccccatctc 1320
ccccgcaact gaagtccggg gctctggcat tggcacaccg cctctgtgac tcaagcggga 1380
gaggaagagg cgtgtggctc tgtccctgt cactgagaat agcaccagtc tgtccttctc 1440
ggattcctgt aacagcctca cgcccaagag cacacctgtt aagaccctgc cctctctgcc 1500
ctccagttt ctgaacttct ggaacaaaac ggacacattg gagctggaga gccctcgtc 1560
gacatccacc ccagtgtgca gccagaaggt ggtggtcacc acaccactgc accgggacaa 1620
gacacccctg caccagaaac atgtctgcgt tgtaacccca gatcagaagt actccatgga 1680
caacactccc cacacgcca ccccgttcaa gaacgcctg gagaagtacg gaccctgaa 1740
gcccctgcca cagacccgc accctggagga ggacttgaag gaggtgctgc gttctgaggc 1800
tggcatcgaa ctcatcatcg aggacgacat caggcccgag aagcagaaga ggaagcctgg 1860
gctgcggcgg agccccatca agaaagtccg gaagtctctg gctcttgaca ttgtggatga 1920
ggaatgtgaag ctgatgatgt ccacactgcc caagtctcta tcttgccga caactgcccc 1980
ttcaaaactt tccagcctca cctgtcagg tatcaaagaa gacaacagct tgcacaacca 2040
gggtctctt caggccaagc ccagtgctg agcagtggcc cagaagcccc gaagccactt 2100
cacgacacct gcccctatgt ccagtgcctg gaagacgggt gcctgcgggg ggaccaggga 2160
ccagcttttc atgcaggaga aagcccggca gctcctgggc cgctgaagc ccagccacac 2220
atctcggacc ctcatcttgt cctgaggtgt tgaggggtgc acgagcccat tctcatgttt 2280
acagggggtg tgggggcaga ggggggtctg gaaactgaga gtcattcagg tgacctcctg 2340
caggggagct tctgccacca gccctcccc cagctgtggg agactctcag gtggaggcaa cagggccatg 2400
tgctgcctg ttgccgagcc cagctgtggg cggctcctgg tgctaacaac aaagttccac 2460
ttccaggtct gcctggttcc ctccccagg ccacagggag ctccgtcagc ttctcccaag 2520

```

```

cccacgtcag gcctggcctc atctcagacc ctgcttagga tgggggatgt ggccagggggt 2580
gctcctgtgc tcaccctctc ttggtgcatt tttttggaag aataaaattg cctctctctt 2640
taaaaaaaaa aaaaaa 2656

```

```

<210> 203
<211> 1722
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 221961.2

```

```

<400> 203
ggccatctac aatcaagatt gagagtggct ctaacaagtg ccatttttcc ttgttagctt 60
tcatttctca gccctttaca agattaaaaat agtctgcagt ttaatctctc caaagcttta 120
cggacagtga ttctgtccta aacaagacag tgactccagg atttctgaag actattgttg 180
aagaagcatc cattaaggcc aagctataac atcagaaatg gtgaatgaat acaagaaaat 240
tcttttgctg aaaggatttg agctcatgga tgattatcat ttacatcaa ttaagtcctt 300
actggcctat gatttaggac taactacaaa aatgcaagag gaatacaaca gaattaagat 360
tacagatttg atggaaaaaa agttccaagg cgttgccctg ctagacaaac taatagaact 420
tgccaaagat atgccatcac ttaaaaacct tgtaacaat cttcgaaaag agaagtcaaa 480
agttgctaag aaaattaaaa cacaagaaaa agctccagtg aaaaaataa accaggaaga 540
agtggtctct gcggcacctg caccaccgcg aagaaacaaa ctgacatcgg aagcaagagg 600
gaggattctt gtagctcaga aaagaaaaac tccaaacaaa gaaaagactg aagccaaaag 660
gaataagggt tcccaagagc agagtaagcc cccgggtccc tcaggagcca gcacatctgc 720
agctgtggat catcccccac taccacagac ctcatcatca actccatcca acacttcgtt 780
tactccgaat caggaaaccc aggcccaacg gcaggtggat gcaagaagaa atgttcccca 840
aaacgaccca gtgacagtgg tggtagtcaa agcaacagcg ccatttaaat acgagtcctc 900
agaaaaatggg aaaagcaca tgtttcatgc tacagtggcc agtaagactc aatatttcca 960
tgtgaaagtc ttcgacatca acttgaaaga gaaatttgta aggaagaagg tcattaccat 1020
atctgattac tctgaatgta aaggagtaat ggaaataaag gaagcatcat ctgtgtctga 1080
ctttaatcaa aattttgagg tcccaaacag aattatcgaa atagcaataa aaactcccaa 1140
gatcagtcaa ctttacaagc aagcatctgg aacaatgggt tatgggttgt ttatgttaca 1200
aaagaaaagc gtacacaaga agaacacaat ttatgaaata caggataata caggatccat 1260
ggatgtagtg gggagtggaa aatggcacia tatcaagtgt gagaaaggag ataaacttcg 1320
actcttctgc cttcaactga gaacagttga ccgcaagctg aaactggtgt gtggaagtca 1380
cagcttcctc aaggtcatca aggccaaagaa aaacaaggaa ggaccaatga atgttaattg 1440
aaatatgaaa gctgaaatgc aacaaacaac ttccgcttaa acaattaag ttgttaataa 1500
ctgtgatttt gtaattttca gtaattcatt taaatgatgt ttcagtagat atattctagc 1560
atattaagag cttttataac tgagttatag attagtttgc tttctggaat aaaattttct 1620
tcttatactc ttcttttttt ttagatatta cattttgctt ttatgacatt caccaggcaa 1680
aaaaataaat atcttttttt gaaggacaaa aaaaaaaaaa aa 1722

```

```

<210> 204
<211> 835
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 246824.1

```

```

<400> 204
gtttctgcat ggccaagagc cagacctcc ctctgggctc tgetggccca acccaccaag 60
ggatgcttta tttaaacagt tccaagtagg ggagaccagc tgcccctgaa cccagaaaca 120
accagctgga tcagttctca caggagctac agcgcgga ctgggaaaca tgggtccaaa 180
actgttcaact tcccaaattt gtctgcttct tctgttgggg cttctggctg tggagggtct 240
actccatgtc aaacctccac agtttacctg ggctcaatgg tttgaaaccc agcacatcaa 300
tatgacctcc cagcaatgca ccaatgcaat gcaggctcatt aacaattatc aacggcgatg 360
caaaaaccaa aatactttcc ttcttacaac ttttgctaac gtagttaatg tttgtggtaa 420
cccaaatatg acctgtctca gtaacaaaac tcgcaaaaat tgtcaccaca gtggaagcca 480
ggtgccttta atccactgta acctcacaac tccaagtcca cagaatattt caaactgcag 540
gtatgctcag acaccagcaa acatgttcta tatagttgca tgtgacaaca gagatcaacg 600
acgagacctc ccacagtatc cgggtggttc agttcacctg gatagaatca tctaagctcc 660
tgtatcagca ctctcatca tcaatcatct gccaaagctc tcaatcatag ccaagatccc 720
atctctecat atactttggg tatcagcatc tgtctctatc agtctccata ccccttcagc 780

```

tttcctgagc tgaagtgcct tgtgaaccct gcaataaaact gctttgcaaa ttcaa 835

<210> 205
<211> 2319
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 407557.2

<220>
<221> unsure
<222> 2114
<223> a, t, c, g, or other

<400> 205
ctctgccgag cctccttaaa actctgccgt taaaatgggg gcgggttttt caactcaaaa 60
agcgtcaat tttttcttt tcaaaaaaag ctgatgaggt cggaaaaaag ggagaagaaa 120
ccggcaccct ctctgagagg caacagaagc agcaattggt tcagcgaaaa aagcagcaag 180
ggagggagtg aaggaaaaaa gcaaaaaagg gggcgacacg caagtgcctg taggggtgaa 240
aggagcaggg accggcgatc taggggggga tcagctacaa aagaaactgt cactgggagc 300
ggtgcggcca aggaggaagc agtgcctgcca ggctctgctc cagggcacag ctggctggcg 360
gctgccctgt ccgcagcaaa ggggcacagg ccggggaccg cgagaggtgg caaagtggca 420
ccgggcgcgg aggtcgtctg gcgctgcgg agacggcgac cggactggct gccccggaac 480
tgcggcgact ctccctactc agaacttggc ctacgtttcc caggactctc cccatctcca 540
gaggccccc caaaaccggg aaagggaagga aaggacagcg gcggcagcag ctcaatgagt 600
gcctacagca gaaagcctga acgagctcgg tcgtaggcgg gaagttcccg ggggggctgc 660
ccagtgcagc cgcaatgctg ccgcgagctg ccccgagcag ccgggctccg tagacgcttt 720
ccgcatcact ctccctctc gggctgcgg gagtcccgg accctggcggg gccggcatga 780
cgggcttctc cggggcccg cgcacgccc gcagcctccg gagacgcgcg ccgagcccg 840
ctcccacggc ctctgaggct cggcggggct gggctgcct ggccggcggg ctccggagct 900
ttcttgagcc ggcattagcc caccgcttgg ccgggacgcg accaaaggct cttctggaga 960
agcccagagc actgggcaat cgttacgacc tgtaacttga gggccaccga actgctactc 1020
cgttctgcct ttggcgatga atcttttaac cctccggagc acgtcagcat ccagccaccg 1080
cggcgctctc ccagcagcgg aggaccagg actatccctt cggcgagacg gatggaaacc 1140
gagccccctg gaggacctgc ccctgcagtt ctgcctcaca cggctcaagt caccacccgtg 1200
aacaaggagc cctaaagaat ggccgagcct tgggggaacg agttggcgct cgcagctgcc 1260
agggggggacc tagagcaact tactagtttg ttgcaaaata atgtaaactg caatgcacaa 1320
aatggatttg gaaggactgc gctgcagggt atgaaacttg gaaatcccga gattgccagg 1380
agactgctac ttagaggtgc taatcccgat ttgaaagacc gaactgggtt cgctgtcatt 1440
catgatgcgg ccagagcagg tttcctggac actttacaga ctttgctgga gtttcaagct 1500
gatgttaaca ttggcgatga tgaagggaac ctgccttgc acttggtgc caaagaaggt 1560
cacctccggg tgggtggagt cctgggtgaag cacacggcca gcaatgtggg gcacgggaac 1620
cataaggggg acaccgcctg tgatttggcc aggtctctat ggaggaatga ggttgttagc 1680
ctgatgcagg caaacggggc tgggggagcc acaaactctt aataaacgtg gggagggctc 1740
cccacggttg cctctacttt atcaattaac tgagtagctc tctgacttt taatgtcatt 1800
tgttaaaaata cagttctgtc atatgttaag cagctaaatt ttctgaaact gcataagtga 1860
aaatcttaca acaggcttat gaatatattt aagcaacatc tttttaacct gcaaaatctg 1920
ttctaacatg taattgcaga taactttgac tttcttctga atattttatc tttccttggc 1980
ttttcccttg ctcccccctt tgccaatctc aacacccaag ttgaagactt tgtttttaaa 2040
atgggtttgtc ctgatgcttt tgtctaatta aaacactttc aaaacaggac aacatttttc 2100
tgtgattttc cctncttttag aaccataaca caacttatca cttgctaagg agaactgtac 2160
taaaagttat tgaatgtctt aagtctttac actagaaaag gtagaccaac tggaaaacta 2220
gacatactct cttgatgatt cagttgtttt catcctttac ccatgtcacg tccaccttgg 2280
tgccatgat tttctgttta aaacaaaata aggacaact 2319

<210> 206
<211> 1170
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 372981.2

<400> 206

```

aagtaatctt agggattgtg ggaaggcagc tgaactcggc gcctggaaag atggaggcag 60
cggagacaga ggcggaagct gcagccctag aggtcctggc tgagggtggca ggcattcttg 120
aacctgtagg cctgcaggag gaggcagaac tgccagccaa gatcctgggt gagtttcttg 180
tggaactctca gaagaaagac aagctgctct gcagccagct tcaggtagcg gatttctctg 240
agaacatcct ggctcaggag gacactgcta aggggtctga ccccttggct tctgaagaca 300
cgagccgaca gaaggcaatt gcagctaagg aacaatggaa agagctgaag gccacctaca 360
gggagcacgt agaggccatc aaaattggcc tcaccaaggc cctgactcag atggaggaa 420
cccaggagaa acggacacaa ctccgggaag cctttgagca gctccaggcc aagaacaaa 480
tggccatgga gaaacgcaga gcagtccaga accagtggca gctacaacag gagaagcatc 540
tgagcatctt ggcggaaggt tctgcagagg tgagggagcg taagacaggg actcagcagg 600
agcttgacgg ggtgttttcag aaacttggaa acctgaagca gcaggcagaa caggagcggg 660
acaagctgca gagggttaagc tgttgttccc tgaggctgag gctgaggcag agaattcttc 720
agatgataaa ccccagcagc cgactcgacc ccaggagcag agtacaggag acaccatggg 780
gagagaccct ggtgtgtcct tcaaggctgt tggctctaaa cctgctggag atgtaaattt 840
gccatgactt cctggaggac agcagcatgg agaaagatcc tagaaaaggt cagacccaac 900
tcaggccttg gtgtccctgg actgcaagtg tgggaaggagg gaaagcctgg ttacacctc 960
tctgcatctg agctctgcta cccatggagc agatggatgg tgggaacagg aaagagctta 1020
tgttacacct cattcccatg cttagccac ccagagctaa cccctgtctt cttccccagg 1080
cctctgactt ccctcacctc ccaaccatca ttacaggaaa gactgtgaac tcctgagttc 1140
agcttgattt ctgactacat cccagcaagc

```

<210> 207
 <211> 1382
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 201409.6

```

<400> 207
gctggtttgc cacaaaactc catcgtaact gaaagaggaa atcttctaca aattccagat 60
ttcactgctc ccaccagctt ggagacaaca tgtggttctt gacaactctg ctcccttggg 120
ttccagttga tgggcaagtg gtagacacca caaaggcagt gatcactttg cagcctccat 180
gggtcagcgt gttccaagag gaaaccgtaa ccttgcactg tgagggtgctc catctgcctg 240
gggagcagct ccacacagtg gtttctcaat ggcacagcca ctcagacctc gacccccagc 300
tacagaatca cctctgccag tgtcaatgac agtgggtgaat acagggtgcca gagagggtctc 360
tcagggcgaa gtgaccccat acagctggaa atccacagag gctggctact actgcaggtc 420
tcagcagag tcttcacgga aggagaacct ctggccttga ggtgtcatgc gtggaaggat 480
aagctggtgt acaatgtgct ttactatcga aatggcaaaag cctttaagtt tttccactgg 540
aattctaacc tcaccattct gaaaaccaac ataagtcaca atggcaccta ccattgctca 600
ggcatgggaa agcatcgcta cacatcagca ggaatatctg tcaacttgaa agagctattt 660
ccagctccag tgctgaatgc atctgtgaca tccccactcc tggaggggaa tctggtcacc 720
ctgagctgtg aaacaaagtt gctcttgtag aggcctgggt tgcagcttta cttctccttc 780
tacatgggca gcaagacctt gcgaggcagg aacacatcct ctgaatacca aatactaact 840
gctagaagag aagactctgg gttatactgg tgcgaggctg ccacagagga tggaaatgtc 900
cttaagcgca gccctgagtt ggagcttcaa gtgcttggcc tccagttacc aactcctgtc 960
tggtttcagt tcttttctta tctggcagtg ggaataatgt ttttagtgaa cactgttctc 1020
tgggtgacaa tacgtaaaga actgaaaaga aagaaaaagt gggatttaga aatctctttg 1080
gattctggtc atgagaagaa ggtaatttcc agccttcaag aagacagaca tttagaagaa 1140
gagctgaaat gtcaggaaca aaaagaagaa cagctgcagg aaggggtgca ccggaaggag 1200
ccccagggg ccacgtagca gcggctcagt ggttgccat cgatctggac cgtccccctg 1260
ccacttgctc cccgtgagca ctgcgtacaa acatccaaaa gttcaacaac accagaactg 1320
tgtgtctcat ggtatgtaac tcttaaagca aataaatgaa ctgacttcaa ctgggaaaaa 1380
aa

```

<210> 208
 <211> 2865
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 331025.1

```

<400> 208
gcggcggttt acgcggcggt aagacttcgt aggggttagcg aaattgaggt ttcttggtat 60

```

```

tgccgcttcc tcttccttgc tgactctccg aatggccatg gactcgtcgc ttcaggcccg 120
cctgtttccc ggtctcgtca tcaagatcca acgcagtaat ggtttaattc acagtgccaa 180
tgtaaggact gtgaacttgg agaaatccctg tggtttcagtg gaatggggcag aaggagggtgc 240
cacaaagggc aaagagattg attttgatga tgtggctgca ataaaccag aactcttaca 300
gcttcttccc ttacatccga aggacaatct gcccttgca gaaaatgtaa caatccagaa 360
acaaaaacgg agatccgtca actccaaat tctgtctcca aaagaaagtc ttcgaagccg 420
ctccactcgc atgtccactg tctcagagct tcgcatcacg gctcaggaga atgacatgga 480
ggtggagctg cctgcagctg caaactcccc caagcagttt tcagttcctc ctgccccac 540
taggccttcc tgccctgcag tggctgaaat accattgagg atggtcagcg aggagatgga 600
agagcaagtc cattccatcc gaggcagctc ttctgcaaac cctgtgaact cagttcggag 660
gaaatcatgt cttgtgaagg aagtggaaaa aatgaagaac aagcgagaag agaagaaggc 720
ccagaactct gaaatgagaa tgaagagagc tcaggagtat gacagtagtt ttccaaactg 780
ggaatttgcg cgaatgatta aagaatttgc ggctactttg gaatgtcatc cacttactat 840
gactgaactc atcgaaagag acagaatatg tgtctgtgtt aggaaaacgccc cactgaataa 900
gcaagaattg gccaaagaaag aaattgatgt gatttccatt cctagcaagt gtctcctctt 960
ggtacatgaa cccaagttga aagtggactt aacaaagtat ctggagaacc aagcattctg 1020
ctttgacttt gcatttgatg aaacagcttc gaatgaagtt gtctacaggt tcacagcaag 1080
gccactggta cagacaatct ttgaaggtag aaaagcaact tgttttgcat atggccagag 1140
aggaagtggc aagacacata ctatgggagg agacctctct gggaaagccc agaatgcac 1200
caaaggagtc tatgccatgg cctcccggga cgtcttctct ctgaagaatc aacctgcta 1260
ccgggaagtg ggcctggaag tctatgtgac attcttcgag atctacaatg ggaagctgtt 1320
tgacctgctc aacaagaagg ccaagctgcg cgtgctggag gacggcaagc aacaggtgca 1380
agtgttgggg ctgcaggagc atctgggtta cctctgtgat gatgtcatca agatgatcga 1440
catgggcagc gcctgcagaa cctctgggca gacatttgc aactccaatt cctcccgtc 1500
ccacgcgtgc ttccaaatta ttcttcgagc taaagggaga atgcatggca agttctcttt 1560
ggtagatctg gcagggaatg agcggaggcg ggacacttcc agtgctgacc ggcagacccg 1620
catggagggc gcagaaatca acaagagctc cttagccctg aaggagtga tcagggccct 1680
gggacagaac aaggetcaca ccccgttccg tgagagcaag ctgacacagg tgctgaggga 1740
ctccttcatt ggggagaact ctaggacttg catgattgcc acgatctcac caggcataag 1800
ctcctgtgaa tatactttaa acaccctgag atatgcagac agggcaagg agctgagccc 1860
ccacagtggg ccagtgagg agcagttgat tcaaatggaa acagaagaga tggagcctg 1920
ctctaaccgg gcgctgattc caggcaattt atccaaggaa gaggaggaa cgtgttccca 1980
gatgtccagc tttaacgaag ccatgactca gatcaggagg ctggaggaga aggctatgga 2040
agagctcaag gagatcatac agcaaggacc agactggcct gagctctctg agatgaccga 2100
gcagccagac gcagaaatca agacctttgt gaacaaagcg gaatctgtc tggcccagca 2160
agccaagcat ttctcagccc tgcgagatgt catcaaggcc ttgcgcctgg ccatgcagct 2220
ggaagagcag gctagcagac aaataagcag caagaaacgg cccagtgac gactgcaaat 2280
aaaaatctgt ttggtttgac acccagcctc ttccctgggc cctcccaga gaactttggg 2340
tacctggtag gtctaggcag ggtctgagct gggacagggt ctggtaaatg ccaagtatgg 2400
gggcatctgg gccagggca gctggggagg ggttcagagt gacatgggac actcctttc 2460
tgttctcag ttgtcgcct cagcagagga aggagctctt agttaccctt ttgtgttgc 2520
cttcttcca tcaaggggaa tgttctcagc atagagcttt ctccgcagca tcctgctgc 2580
gtggactggc tgctaattga gagctccctg ggttgtctct ggctctgggg agagagacgg 2640
agcctttagt agcctttagt gctggctcta aacctctac gctttgggc cgagcactga 2700
atgtcttcta ctttaaaaa atgtttctga gacctcttct tactttactg tctccctaga 2760
gatcctagag gatccctact gttttctgtt ttatgtgttt atacattgta tghtaacaata 2820
aagagaaaaa ataatcagc tgtttaagtg tgtggaaaaa aaaaa 2865

```

<210> 209
<211> 1044
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 247515.1

```

<400> 209
ggagggcgct ggccggccgt ggggcaatgc aacggcctcc cagcacaggg ctataagagg 60
agccggggcg gcacggagg ggcagagacc cggagcccca gccccaccat gaccctcggc 120
cgccgactcg cgtgtctttt cctgcctgt gtctgcccgc cettgtctgt ggggggcacc 180
gcgctggcct cggagattgt ggggggcggc cgagcgcggc cccacgcgtg gcccttcag 240
gtgtccctgc agctgcgcgg agggcacttc tgcggcgcca ccctgattgc gcccaacttc 300
gtcatgtcgg ccgcgcactg cgtggcgaat gtaaacgtcc gcgcggtgcg ggtggtcctg 360
ggagcccata acctctcgcg gcgggagccc acccggcagg tgttcgccgt gcagcgcac 420
ttcgaaaaacg ctacgacccc cgtaaacctg ctcaacgaca tcgtgattct ccagctcaac 480
gggtcggcca ccatcaacgc caacgtgcag gtggcccagc tgcggctca gggacgccc 540

```

```
ctgggcaacg gggcgagtg cctggccatg ggctggggcc ttctgggcag gaaccgtggg 600
atcgccagcg tcctgcagga gctcaacgtg acgggtgggtga cgtccctctg ccgtcgcagc 660
aacgtctgca ctctcgtgag gggccggcag gccggcgctct gtttcgggga ctccggcagc 720
cccttggctc gcaacggggt aatccacgga attgcctcct tcgtccgggg aggctgcgcc 780
tcagggtctc accccgatgc ctttgccccg gtggcacagt ttgtaaacgt gatcgactct 840
atcatccaac gctccgagga caaccctgt cccaccccc gggaccggga cccggccagc 900
aggaccact gagaagggtc gcccggtca cctcagctgc ccacaccac actctccagc 960
atctggcaca ataaacattc tctgttttgt agaattgtgt tgatgctcct tggctgtgtg 1020
attgggtgtt gaaaatggtc agta 1044
```

<210> 210

<211> 1505

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 199471.2

<400> 210

```
caggaaggct gagagaaagg gcagggtcccc gctgcgtggg gctgggctta aaggctcgtc 60
gcgcctgcca aaggacctga cgacgtgctg cgtcgttact tttgaaacgc ttggcgggga 120
agtgtctgtg gagccgctgt ggttgcgtgc cgccgagtg aagcgccgtg cttttgtttg 180
tgtccctggc catggcgctg cagctctccc gggagcaggg aatcacctcg cgcgggagcg 240
ccgaaatcgt ggccgagttc ttctcattcg gcatcaacag cattttatat cagcgtggca 300
tatatccatc tgaaaccttt actcgagtgc agaaatacgg actcaccttg ctgttaacta 360
ctgatcttga gctcataaaa tacctaaata atgtgttgga acaactgaaa gattggttat 420
acaagtgttc agttcagaaa ctggtttagg ttatctcaaa tattgaaagt ggtgaggtcc 480
tggaagatg gcagtttgat attgagtggt acaagactgc aaaagatgac agtgcaacca 540
gagaaaagtc tcagaaagct atccaggatg aaatccgttc agtgatcaga cagatcacag 600
ctacgggtgac atttctgcca ctggttggag tttcttggtc atttgatctg ctgatttata 660
cagacaaaga ttgtgttga cctgaaaaat gggaagagtc gggaccacag tttattacca 720
attctgagga agtcgcctt cgttcattta ctactacaat ccacaaagta aatagcatgg 780
tgccctacaa aattcctgtc aatgactgag gatgacatga ggaaaataat gtaattgtaa 840
ttttgaaatg tggtttctc gaaatcaggt catctatagt tgatatgttt tatttcattg 900
gttaattttt acatggagaa aaccaaaatg atacttactg aactgtgtgt aattgttctt 960
tttatttttt tggtagctat ttgacttacc atggagttaa catcatgaat ttattgcaca 1020
ttgttcaaaa ggaaccagga ggtttttttg tcaacattgt gatgtatatt cctttgaaga 1080
tagtaactgt agatggaaaa acttgtgcta taaagctaga tgctttccta aatcagatgt 1140
tttgggtcaag tagtttgact cagtataggt agggagatat ttaagtataa aatacaacaa 1200
aggaagtcta aatattcaga atctttgtta aggtcctgaa agtaactcat aatctataaa 1260
caatgaaata ttgctgtata gtcctttttg accttcattt catgtatagt tttccctatt 1320
gaatcagttt ccaattattt gactttaatt tatgttaact gaacctatga agcaatggat 1380
atttgtagtg tttaatgttc tgtgatacag aactcttaaa aatgtttttt catgtgtttt 1440
ataaaatcaa gttttaagtg aaagtgagga aataaagtta agtttgtttt aaatttgtct 1500
taaaa 1505
```

<210> 211

<211> 1211

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2916753

<220>

<221> unsure

<222> 715

<223> a, t, c, g, or other

<400> 211

```
tggcccggtg cctagctcgt caagttgccg tggcgcgagg aactctgcaa aacaagaggc 60
tgaggattgc gttagagata aaccagttca cgccggagcc ccgtgaggga agcgtctccg 120
ttgggtccgg ccgctctgcg gggactctga ggaaaagctc gcaccagggt gacgcggatc 180
tgtcaacatg ggtaaaggag accccaacaa gccgcggggc aaaatgtcct cgtacgcctt 240
cttcgtgcag acctgccggg aagagcacia gaagaaacac ccggactctt ccgtcaattt 300
```


cgcggaattc	tccaagaagt	gttcggagag	atggaagacc	atgtctgcaa	aggagaagtc	360
gaagtttgaa	gatatggcaa	aaagtgcaca	agctcgctat	gacagggaga	tgaaaaatta	420
cgttcctccc	aaagatctgc	cttcttcctg	ttttgctctg	aacatcgccc	aaagatcaaa	480
agtgaacacc	ctggcctatc	cattggggat	actgcaaaga	aattgggtga	aatgtggtct	540
gagcagtcag	ccaaagataa	acaaccatat	gaacagaaaag	cagctaagct	aaaggagaaa	600
tatgaaaagg	atattgctgc	atategtgcc	aagggcaaaa	gtgaagcagg	aaagaagggc	660
cctggcaggc	caacaggctc	aaagaagaag	aacgaaccag	aagatgagga	ggagnaggag	720
gaagaagaag	atgaagatga	ggaggaagag	gatgaagatg	agaataaat	ggctatcctt	780
taatgattcg	tgtggaatgt	gtgtgtgtgc	tcaggcaatt	atcttgctaa	gaatgtgaat	840
tcaagtgcag	ctcaatacta	gcttcagtat	aaaaactgta	cagatttttg	tatagctgat	900
aagattctct	gtagagaaaa	tactttttaa	aaatgcaggt	tgtagctttt	tgatgggcta	960
ctcatcacgt	tagattttac	agcttctgat	gttgaatgtt	cctaaatatt	taatgggttt	1020
tttaatttct	tgtgtatggt	agcacagcaa	actttagga	attagtatca	atagtaaatt	1080
ttgggttttt	taggtatgtg	catttcgttt	ttttaaaaa	aattttgtaa	taaaattatg	1140
tatattatct	ctattgtctt	tgtcttaata	tgctaagtta	atcttcactt	taaaaaagcc	1200
atttgaagac	c					1211

<210> 212

<211> 3045

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 343899.2

<400> 212

tgctgaggag	tgccagtcac	cttcagtttc	tggagctggc	cgtcaacatg	tcctttccta	60
aggcgccctt	gaaacgatto	aatgaccctt	ctgggtgtgc	accatctcca	ggtgcttatg	120
atgttataaac	tttagaagta	ttgaaaggac	cagtatcctt	tcagaaatca	caaagattta	180
aacaacaaaa	agaaatctaaa	caaaatctta	atgttgacaa	agatactacc	ttgcctgctt	240
cagctagaaa	agttaagtct	tcggaatcaa	agaagggaatc	tcaaaagaat	gataaagatt	300
tgaagatatt	agagaaaagag	attcgtgttc	ttctacagga	acgtgggtgcc	caggacaggc	360
ggatccagga	tctggaaact	gagttggaaa	agatgggaagc	aaggctaaat	gctgcactaa	420
gggaaaaaac	atctctctct	gcaaaataatg	ctacactgga	aaaacaactt	attgaattga	480
ccaggactaa	tgaactacta	aaatctaagt	tttctgaaaa	tggttaaccag	aagaatttga	540
gaattctaag	cttggagttg	atgaaactta	gaaacaaaag	agaaacaaag	atgaggggta	600
tgatggctaa	gcaagaaggc	atggagatga	agctgcaggt	cacccaaagg	agtctcgaag	660
agctctcaagg	gaaaatagcc	caactggagg	gaaaacttgt	ttcaatagag	aaagaaaaga	720
ttgatgaaaa	atctgaaaca	gaaaaactct	tggataacat	cgaagaaatt	agttgtgctt	780
cagatcaagt	ggaaaaatac	aagctagata	ttgccaggtt	agaagaaaat	ttgaaagaga	840
agaatgatga	aattttaagc	cttaagcagt	ctcttgagga	gaatattgtt	atattatcta	900
aacaagtaga	agatctaaat	gtgaaatgtc	agctgcttga	aaaagaaaaa	gaagaccatg	960
tcaacaggaa	tagagaacac	aacgaaaatc	taaatgcaga	gatgcaaac	ttaaaaacaga	1020
agtttattct	tgaacaacag	gaacgtgaaa	agcttcaaca	aaaagaatta	caaattgatt	1080
cacttctgca	acaagagaaa	gaattatctt	cgagtcttca	tcagaagctc	tgttcttttc	1140
aagaggaaat	ggctaaagag	agaaatctgt	ttgaggaaga	attaaagcaa	acactggatg	1200
agcttgataa	attacagcaa	aaggaggaa	aagctgaaag	gctgggtcaag	caattggaag	1260
aggaagcaaa	atctagagct	gaagaattaa	aactcctaga	agaaaagctg	aaaggggaagg	1320
aggctgaact	ggagaaaagt	agtgctgctc	ataccagggc	caccttgctt	ttgcaggaaa	1380
agtatgacag	tatggtgcaa	agccttgaag	atgttactgc	tcaatttgaa	agctataaag	1440
cgtaaacagc	cagtggagata	gaagatctta	agctggagaa	ctcatcatta	caggaaaaag	1500
cggccaaggc	tgggaaaaat	gcagaggatg	ttcagcatca	gattttggca	actgagagct	1560
caaatcaaga	atatgtaagg	atgcttctag	atctgcagac	caagtcagca	ctaaaggaaa	1620
cagaaattaa	agaaatcaca	gtttcttttc	ttcaaaaaat	aactgatttg	cagaaccaac	1680
tcaagcaaca	ggaggaagac	tttagaaaac	agctggaaga	tgaagaagga	agaaaagctg	1740
aaaaagaaaa	tacaacagca	gaattaaactg	aagaaattaa	caagtggcgt	ctcctctatg	1800
aagaactata	taataaaaca	aaaccttttc	agctacaact	agatgctttt	gaagtagaaa	1860
aacaggcatt	gttgaatgaa	catgggtcag	ctcaggaaca	gctaaataaa	ataagagatt	1920
catatgctaa	attattgggt	catcagaatt	tgaacaaaaa	aatcaagcat	gttgtgaagt	1980
tgaagatga	aaatagccaa	ctcaaatcgg	aagtatcaaa	actccgctgt	cagcttgcta	2040
aaaaaaaaca	aagtgagaca	aaacttcaag	aggaattgaa	taaagttcta	ggtatcaaac	2100
actttgatcc	ttcaaaggct	tttcatcatg	aaagtaaaga	aaattttgcc	ctgaagaccc	2160
cattaaaaga	aggcaataca	aactgttacc	gagctcctat	ggagtgtcaa	gaatcatgga	2220
agtaaacatc	tgaagaaact	gttgaagatt	atcttattcg	tcttgggtgt	attgatgttg	2280
ctgttattat	atttgacatg	ggtattttat	aatgttgtat	ttaattttta	ctgccaatcc	2340
ttaaatatgt	gaaaggaaca	ttttttacca	aagtgtcttt	tgacatttta	ttttttcttg	2400

caaataacctc	ctccctaattg	ctcaccttta	tcacctcatt	ctgaaccctt	tcgctggctt	2460
tccagcttag	aatgcacctc	atcaacttaa	aagtcagtat	catattatta	tcctcctgtt	2520
ctgaaccctt	agtttcaaga	gtctaaaccc	cagattcttc	agcttgatcc	tgagggtctt	2580
ttcagtcctg	agcttcttta	gctaggctaa	aacaccttgg	cttggtattg	cctctacttt	2640
gattctgata	atgtcactt	ggctctacct	attatccttc	tacttgacca	gttcaaataa	2700
gaaataagga	caagcctaac	ttcatagaaa	cctctctatt	tttaatcagt	tgtttaataa	2760
tttacagggt	cttaggctcc	atcctgtttg	tatgaaatta	taatctgtgg	attggccttt	2820
aagcctgcat	tccttaacaaa	ctcttcagtt	aattcttaga	tacactaaaa	atctgagaaa	2880
ctctacatgt	aactatttct	tcagagtttg	tcataactg	cttgctatct	gcatgtctac	2940
tcagcatttg	attaacattt	gtgtaatatg	aaataaaaat	acacagtaag	tcattttaaaa	3000
aaaaaaaaaa	tttaaagatc	aacatgtggt	taaaaaaaaa	aaaaa		3045

<210> 213

<211> 3023

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 335775.2

<220>

<221> unsure

<222> 2895, 2897, 2952, 2969

<223> a, t, c, g, or other

<400> 213

cgcgagcagg	agacggcggc	ggcgcggaacc	ctgctggggc	tcagtcacc	ctcgtcttgc	60
attttccgcg	gtgcgtgtgt	gagtggtgt	gtgtgttttc	ttacaaaggg	tatttcgcga	120
tcgacgtatt	gattcgttagt	tccccccgcg	gcgcctttgc	cctttgtgct	gtaatcgagc	180
tccccccatc	ccaggtgctt	ctccgttccct	ctaaacgcca	gcgtctggac	gtgagcgag	240
gtcgcgggtt	tgtgccttcg	gtccccgctt	cgccccctgc	cgtccccctc	ttatcacggg	300
cccgctcgcg	gcctcgccgc	cccgctgtct	ccgcgcgccg	ccatggcgac	tgccgacccc	360
gtgcccgcgc	ggatgggcag	ccgcgctggc	ggccccacca	cgcgcgtgag	ccccacgcgc	420
ctgtcgcggc	tccaggagaa	ggaggagctg	cgcgagctca	atgaccggct	ggcggtgtac	480
atcgacaagg	tgcgagcct	ggagacggag	aacagcgcg	tgagctgca	ggtgacggag	540
cgcgaggagg	tgcgcgccg	tgagctcacc	ggcctcaagg	cgctctacga	gaccgagctg	600
gccgacgcgc	gacgcgcgct	cgacgacacg	gcccgcgagc	gcgccaagct	gcagatcgag	660
ctgggcaagt	gcaaggcgga	acacgaccag	ctgctcctca	actatgctaa	gaaggaatct	720
gatcttaattg	gcgcccagat	caagcttcga	gaatatgaag	cagcactgaa	ttcgaaagat	780
gcagctctttg	ctactgcact	tggtgacaaa	aaaagtttag	agggagattt	ggaggatctg	840
aaggatcaga	ttgccagtt	ggaagcctcc	ttagctgcag	ccaaaaaaca	gttagcagat	900
gaaacttttac	ttaaagttaga	tttgagaat	cgttgtcaga	gccttactga	ggacttggag	960
tttcgcaaaa	gcatgtatga	agaggagatt	aacgagacca	gaaggaagca	tgaaacgcgc	1020
ttggtagagg	tggattctgg	gcgtcaaat	gagtatgagt	acaagctggc	gcaagccctt	1080
catgagatga	gagagcaaca	tgatgcccac	gtgaggctgt	ataaggagga	gctggagcag	1140
acttaccatg	ccaaacttga	gaatgccaga	ctgtcatcag	agatgaatac	ttctactgtc	1200
aacagtgccca	gggaagaact	gatggaaagc	cgcgatgagaa	ttgagagcct	ttcatccag	1260
ctttctaatac	tacagaaaga	gtctagagca	tgtttggaag	ggattcaaga	attagaggac	1320
ttgcttgcta	aagaaaaaga	caactctcgt	cgcgatgctga	cagacaaaga	gagagagatg	1380
gcggaaataa	gggatcaaat	gcagcaacag	ctgaatgact	atgaacagct	tcttgatgta	1440
aagtttagccc	tggacatgga	aatcagtgct	tacaggaaac	tcttagaagg	cgaagaagag	1500
aggttgaagc	tgtctccaag	cccttcttcc	cgtgtgacag	tatcccgagc	atcctcaagt	1560
cgtagtgtac	gtacaactag	aggaaagcgg	aagagggttg	atgtggaaga	atcagaggcg	1620
agtagtagtg	ttagcatctc	tcattccgcc	tcagccactg	gaaatgtttg	catcgagaa	1680
attgatgttg	atgggaaatt	tatccgcttg	aagaacactt	ctgaacagga	tcaaccaatg	1740
ggaggctggg	agatgatcag	aaaaattgga	gacacatcag	tcagttataa	atataacctca	1800
agatatgtgc	tgaaggcagg	ccagactgtt	acaatttggtg	ctgcaaacgc	tggtgtcaca	1860
gccagccccc	caactgacct	catctggaag	aaccagaact	cgtggggcac	tgccgaagat	1920
gtgaaggtta	tattgaaaaa	ttctcaggga	gaggagggtg	ctcaaagaag	tacagtcttt	1980
aaaacaacca	tacctgaaga	agaggaggag	gaggaaagaag	cagctggagt	ggttggttag	2040
gaagaacttt	tccaccagca	gggaacccca	agagcatcca	atagaagctg	tgcaattatg	2100
taaaattttc	aactgtcttc	ctcaaaataa	agaaatatgg	taatccttac	ctgtatacag	2160
tcgagagctc	ttcagaagc	acagaataat	tttatatttc	ctttatgtga	atttttaagc	2220
tgcaaatctg	atggccttaa	tttccctttt	gacactgaaa	gttttgtaaa	agaaatcatg	2280
tccatacact	ttgttgcaag	atgtgaatta	ttgacactga	acttaataac	tgtgtactgt	2340
ttggaagggg	ttcctcaaat	tttttgactt	tttttgtagt	tgtgtttttt	cttttttttt	2400

aagtctttat	gaggagggga	gggtaaataa	accactgtgc	gtcttggtgt	aatttgaaga	2460
ttgccccatc	tagactagca	atctcttcat	tattctctgc	tatatataaa	acggtgctgt	2520
gaggagggg	aaaagcattt	ttcaatatat	tgaacttttg	tactgaattt	ttttgtaata	2580
agcaatcaag	gttataattt	tttttaaaat	agaatatttg	taagaaggca	atattaacct	2640
aatcaccatg	taagcactct	ggatgatgga	ttccacaaaa	cttggtttta	tggttacttc	2700
ttctcttaga	ttcttaattc	atgaggaggg	tgggggaggg	aggtggaggg	agggaaaggg	2760
ttctctatta	aaatgcattc	gttggtgtttt	ttaagatagt	gtaacttgct	taaatttctt	2820
atgtgacatt	aacaaataaa	aaagctcttt	taatatgtat	atactgtcct	ttttaacgct	2880
ttaaaaacag	atttngnggg	gagaaaagta	ttgtttcagt	tttgcttttg	ataaaaaat	2940
aatttgactt	cnttgaactg	gatttttctt	taaggctttg	ccagtggaag	ataagctatt	3000
ttgggggtct	ttcagtattt	aat				3023

<210> 214
 <211> 646
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 232714.5

<400> 214	
gcaaagcatt	tcttcaaagt
ctgagaatgg	gaattcatal
ttgtctcagc	agcaccttcc
gaatccgggc	ctttcttgga
ctctcgtggc	aggaggagct
caaaaaatcc	aagtaacacc
gcgctcctcc	atcgggtttg
ccagcagtga	gactatgagc
gtccagatgc	caacaaggaa
tctcctccca	ccaaggattc
acccatgttt	gttggttatgc
tccacagtgt	aacaatcgaa
tccagacaga	ctacatacct
acccctgagga	acattttctgc
ctgattggcc	agaaccttcc
actcctggag	gtccaagggt
ttctgagtag	ctgctgtccc
gggagggagc	actctgggac
caagcaaaga	gaagtctcag
atgcgtttat	ggctacaaga
ttccacctta	attctgtttt
tttctctcca	aaaaaa
	646

<210> 215
 <211> 1398
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 305039.4

<400> 215	
tcagctttcc	taggttttgcg
tcctcccagc	ttctcttcca
atgttcgtgg	ggaaacaggc
tgagataatc	cataccaata
tgagatgata	aaatgtccac
tggaatggga	aattccagag
caaccttcca	agtccttcgt
gcccctccaa	ccaccagatg
tcgctgagtg	gtcttcaggg
gcttcaagg	ggcctgagtc
tggtcttcct	cacctgctgc
acaggtcagc	ccagctgtgg
cataccttgg	cctcaagcac
accacagctt	caccacagac
gcgtggacaa	ggaccttggg
cccaagccca	ggtgatggtg
tggccacagg	aatgccacaa
ctggttccca	tgtctccac
tcacatcaa	ctccacatgc
tagggacccc	ttgaggggac
ctgttccggc	atatcctggc
ctgaggttaa	tttactagct
aatgtttta	agcaaatcta
ctagattatc	gagatcttcag
tttgagcagg	gatgactaag
atgatgagat	atgatttgca
ataatttgca	ggcaatgggtg
gtggggtctg	tccccagtgt
gcttcctcac	gcttcctcac
tgagctgtgc	gcgtgaagaa
aagatgagga	cttgagagacg
gcccagccag	gcccagccag
gctggccagt	gtgacccgca
cagtggtctcc	tccagctcac
gcccctgcct	gcctctgggc
agggtgacca	cgcagtggag
accagccagt	cagctacac
gtggaatcag	cttccaggtg
ggacccaggt	ggggagtggt
tggactactt	gaaaccacta
agagactggg	
taaacctctt	

ttcagcaact acagaaaa

1398

<210> 216

<211> 655

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 233603.2

<220>

<221> unsure

<222> 484-510

<223> a, t, c, g, or other

<400> 216

gctcgagaag	aaagaaaggg	aaagaaatat	ctttgctatt	tgtataaaaa	tggaattttt	60
aacagcttag	cctctagaga	gttactgaac	gtgggttacct	tggaatgta	aatagaactg	120
caaattaaaa	tgactggcca	cttcaactgg	gtaagggaaa	cagctgcaat	aaagcttcgt	180
gaatatatat	ctccatcttg	aaagtttgtt	tccacaaagg	tttcgacctc	tttgtccaaa	240
aatgcataatt	actcattttac	tcctttcata	ccttcattgt	gaaattaaat	aacagactca	300
caagcacctg	gcactggttg	cagacaaaaa	ggcctcaaca	ttctgcagca	ggccagagga	360
ggaacgacgc	tgctacagtc	tttattagtt	ccagtgtctc	agcccagggt	tctaagggtt	420
gacaatatcc	tgtaagttaa	aatcatttcc	acacatacag	agtagaatcc	tgtttttgta	480
agtnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	tggaacattg	tctggaagga	tatacatgaa	540
aatgttaaga	gttggggggg	gttgaatttt	aggcaatttt	aattttttta	acgtcttctg	600
gtttttctac	aataaacatg	aatcagttgt	agaacctcta	aatgataat	gttca	655

<210> 217

<211> 6637

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 330930.1

<220>

<221> unsure

<222> 3142-3163, 5447-5733

<223> a, t, c, g, or other

<400> 217

gcagtgtgag	ctgataattg	cagtacaggt	taacaatttg	caagtcaaag	gcaacagaac	60
tggaaccaaga	aaattcataa	ctttttgctt	ttgtttctac	taagatgaca	tcatacatgg	120
ctattgatgg	cagtgtctct	caggttccct	tgcgtcagaa	gcccaggagg	aaaactcaag	180
gtttttctcac	gatgagtcgg	aggaggatat	cgtgtaaaga	tctgggccat	gctgactgcc	240
aagggtggct	gtataagaaa	aaggaaaagg	gaagtttctc	aagcaacaaa	tggaataaag	300
tctgggtgat	actgaagggg	togtcaactgt	actggtatag	caatcaaagt	gcagagaaag	360
ctgatggatt	tgtcaacctg	cctgatttca	ctgtggaaag	agcatctgaa	tgcaagaaaa	420
agcatgcttt	taagatcagc	catccacaga	tcaagacctt	ttattttgca	gctgagaatg	480
tgcaaggaaat	gaacgtgtgg	ttaataaaac	ttggatcggc	tgtaatccat	caggaatcca	540
ctacaaagga	tgaagaatgt	tacagtgaag	gtgaacagga	agatccagaa	atagctgcgg	600
agacaccacc	ccctcctcac	gcttcccaga	ctcagtcctt	gactgcacag	caggcatctt	660
catcctcacc	cagcctgagt	ggaacgtcgt	attctttctc	ttccctggaa	aatacagtga	720
agacaccacc	cagtttttct	tcctccttat	ctaaagagag	acaatccttg	cctgacacag	780
ttaacagttt	gtctgtctgt	gaagatgagg	gacaaccaat	aacgttttgt	gtgcaagttc	840
attcacctgt	accctcagag	gcaggcatcc	acaaggccct	ggaaaacagt	tttgtcacat	900
cagaaagtgg	atttttgaac	tcctttatcta	gtgatgatac	ttcttcattg	agtagcaatc	960
atgaccatct	tactgtccca	gataagcctg	ctggatcaaa	gatcatggac	aaagaagaga	1020
caaaagtgtc	tgaagatgat	gaaatggaga	agctgtacaa	atcattagag	caagctagtc	1080
tatctcctct	tggggaccga	cgaccttcga	ctaaaaagga	gttgagaaaa	tcctttgtta	1140
agcgggtgta	aaatccatct	ataaacgaga	aactccacaa	aatccgaaca	ttgaatagca	1200
cattaaagtg	taaagaacat	gatctggcca	tgattaacca	gttgctggat	gacccgaagc	1260
tgacagccag	gaaatacaga	gagtggaagc	tcatagaacac	cctgctgac	caggacatct	1320
atcagcagca	gcgggcttcg	cctgccctgt	atgacactga	tgacaccccc	caggaaactca	1380

agaaatcacc	ttcttctccc	tctgttgaaa	attccatttg	agacaaagtc	agggttttct	1440
cctcttatat	tttatcacaa	gcaactcttc	aagatgttgc	aaaagcttac	atttttcctt	1500
aaaaggaaaa	ctgaaccoca	gtccttcaag	catcagcttc	ccatctaaag	atgcacgtta	1560
gatgaagata	atcaccgaat	acaccagggc	tcctcatttc	agtcgtaacg	catccattga	1620
gattggaatg	attgaggtea	gttgaaaggc	gtttttttgtg	ttcctactgg	gagctcacgg	1680
tgatgtgggg	ctctaggggg	gatgtgagaa	atgtctcttc	tgttcattgc	tctccagaga	1740
atgctatgga	caagaatcaa	attttaccag	gagtaattgc	ccatggaaac	attctgtttt	1800
tcaaaagaag	aatgtacata	ttccacttga	ctgggaagct	gtgtggccca	aatcactggt	1860
tgagtggagg	aatgttttct	agagcagtga	ctggaaggac	aaacgtgggtg	ttgcagaaca	1920
aaaatttctt	gcctttggta	tggaatggtg	gtgccttttc	catgtgatga	gaaatgcttc	1980
atagacagtg	gcatgtggga	gagctgaagg	aggaggcgtg	ttccatattc	cactcattca	2040
aaggacagct	tggtgttttc	acactttatg	cagggttaggg	gatctgatta	atgtttcctt	2100
tccttacact	agctagagaa	aacatctcat	cacaattgga	gacctctact	tcctttgagc	2160
tttctactc	aatggttagga	gataggaaata	tgttccgcaa	agaatgtcta	ctgctcttgt	2220
ccttggtctg	gatccctata	catagtgtga	atttatatcc	agggtttccca	ggatcaatat	2280
tgacaagacg	actttggcat	ctgaattggt	ttaatatctt	tactcaaaaa	aacaaaaaaa	2340
caaaaaccca	tggaagcaac	aaaagagtta	aacatgaggg	atttattttt	gtatgtttat	2400
atgtcaactg	tggtctatgt	gaatagctat	gtttgttatt	taaatatatt	tatagaagtt	2460
caaattacta	gtgtttaaaa	gatgatatac	tattatata	tggtcttagt	atataattga	2520
tgagtctata	ctttttgctt	gagaaaaata	gaaatactat	tgattcactg	gtgttatgat	2580
gttgcaactg	gtctgaggaa	tgctcaggaa	atcttgtggg	aaaaaaatgg	ggcatgcatt	2640
cataattttt	tggtctcttc	cccaccccaa	ccccatgag	ctcttaaat	tagatttcta	2700
tctcttgtaa	gtcactcttt	taaccagcaa	aggactttca	tcttagatta	tcctttctat	2760
taataaaact	ttaagctttg	tgccatttat	gcctgcaaac	cttagacca	aggcaacaca	2820
actaatgtca	tcttttcatt	aaagactaat	agaaatttag	aaatcattgt	gttaaagaga	2880
gctatagaga	aacaatata	aagtcttccc	ttactaatca	ccatgaatat	ttctcaccat	2940
aggaataaac	acaacccacc	aagtacccat	gttggccctg	cctaccgta	acaaattggt	3000
cacacaacct	attttgtttt	atagcttcaa	agtgtggcct	gacattcaat	ggaaggaacc	3060
acctgaatta	tatctgcaaa	caaaatggaa	atagttgttg	aatagttccc	caagctttac	3120
taagaagcct	taatactctg	tnnnnnnnnn	nnnnnnnnnn	nnncaacctt	agcathtaaga	3180
ataaaaaaca	aaaaacaaga	agcaaatgtg	acttctagaa	acttctctaa	gataagaggc	3240
caggccagtc	agtttggccc	agcaaacatg	tggttacttc	tcacactagg	gaagccactg	3300
aagatgagtt	tgacctgtgg	tgacctgaca	gagagaacat	tcagatcctc	agattgcacc	3360
ctgatgccct	ggtttaggaa	agcagtgcct	taaccttttg	ccccgggaaa	ttactgattc	3420
ttctgtgat	tagcagatag	cagaagggaa	attatttagg	attggcaatg	taaagagtat	3480
tgaaggaaca	acaaataaca	atagcagaaa	taacagtgtg	acataaagtg	cccttcacc	3540
tatttttctt	tggtttgcaa	caccagcctg	tagacttcca	gtttttctta	aattgaagag	3600
ctccagacac	ttttgagcag	ggtttgtgaa	tagctttgaa	tgctttcctt	tggttttctg	3660
tgaagacata	tttcccagc	ctttcaactg	taaacctcct	tagtaccatt	gaaacttaag	3720
gcaaaaaaga	tccttgggat	tacttagcca	aggcttaaat	ttatttttca	aagtcaagaa	3780
cattagccta	gaagtttttg	ctttgctagt	taaagcttac	tttgagagc	ttcccaaagt	3840
gaaaggga	ctgaacttca	caattttgca	cctggctttc	tgagagccca	ttgcctgctc	3900
attcgttgtt	ttccctgttc	aaattatttt	gcttttgacc	aggttgtgct	agaaagttagg	3960
gctgcttctg	tgagttctca	gcctaggctg	tggtccactaa	gacgtgggtg	gggggataga	4020
caggagttag	agggagagtg	ggtgacactt	tcctgtgacac	ttaatgtagg	aagacatggg	4080
cttctctctc	ttggcctcaa	gccacttttc	tggtccaaag	aatattggga	aaactggatt	4140
actttcagta	tatttcttga	gaccgggtca	tctctgaaat	gcatttgggg	tagtttctctg	4200
gggtccaagg	gccaatctct	atacccagtc	ctcagtgctc	tgtagactgt	ggaatgagag	4260
agaaaaccat	ggctgctcag	gaaggaagtg	gagaatctct	cagcacacgt	agatccaaat	4320
ctgtggcacc	tgctaaagat	taggatttgg	agaggactcc	tccttggggg	tgtgaagagg	4380
accttttccc	tctgttgtaa	gcctgttagt	ccagaacgga	gcctgatgtg	atgccttcac	4440
tggttgatat	attgcaaaata	gacactctga	gccctgcatt	gcaagggcgt	cttttgcttt	4500
aaagaattct	tagttttgcc	acaacagctc	aaatctcaga	ataggatcaa	aggcctagaa	4560
agactcctaa	agtataggat	tacaaagact	ccaggaagcg	taagaaagag	attgtgtttg	4620
gagtcagatt	tcaatgtgaa	acccatgcct	tacatttaca	cagcactttg	tagtttgcaa	4680
attgggtgtg	tttccgccc	ctcccgtgc	cccagtctct	gagatgattg	tggattatta	4740
cagtgaagtg	cctggcccg	agccccagt	gatgaagcag	gaacttgagt	ctcaggactc	4800
ccagcggtc	tctgcccatt	tcctctcttc	cgccccccac	ctcgtttcac	ctgttacctt	4860
gtgaagtgtg	tggtggcaca	tagccacta	ggaaaccaag	aagtttgact	gggagcgtgt	4920
gtttcattgc	actgggctta	gcatacggct	ggcccttggtg	gctgtttggc	taaattctcc	4980
atttgaaacc	taagggggccc	tctctgtgct	tgagcacagt	ctcctcctag	tggtcctgcc	5040
tcaacctgct	ggcgggctgt	ctatggattg	gggtttcacc	taatcatgct	gtgtttcctt	5100
tcttttcttt	ctgtacatta	gactacttgg	gaggtgctgt	gtgatccttg	gatgaaaaac	5160
atataattaa	agaaatggag	agtgtttatt	ttgtttgctt	tttgaggcat	gtgctgtcaa	5220
atgttagaga	ccaaacttag	tgattagagg	ttggtccttt	gacctcttcc	tcttaattgc	5280
ttttcatgta	atcatgataa	tttactcagg	tagcactcca	gtcacaaaca	atgtcacaga	5340
gatgaaacag	attcaaagaa	aaaatatctt	taagtctttt	gaaaagaagt	gctattcaaa	5400

```

ttaaagacat gtttaaattc ataggtacat tatctcttag taagaannnn nnnnnnnnnn 5460
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 5520
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 5580
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 5640
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 5700
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 5760
tacctgattt aatgagtaat gttaagtaca gaaaagctgc catatccaca tagttttagg 5820
gggcatttct tcttcagtct aacaagaata tgatgtccaa ttgtgggtttt ccaattttatt 5880
tctcttccaa tttcttttgt atacctcaca ggagaaattg aatcctagaa ctgggagatg 5940
actgccctgc cccagggttt tgtaatacat aattgaaaat aaaagtccct gaaactaaat 6000
gtttgcagcc tgtatgaaat ggactgtgga agggggataa tttctctcct cacagaaagc 6060
cactcgtctc cttgaatgag gcattgagca gacacacgtt tctctgtgtc gtggggcagg 6120
aagcaatttc cttgcctctt cagcacatct cagttctttc ccacatgacc ccagaaccac 6180
atagaaaaca ttgaaaataa tggattcttc attgtatttg aatttttttt ttttaacctt 6240
tagcccaaaa gggaagtgtg cctcgtggaa agagcaaatt ccgtaaaata gaaaccagga 6300
gttttaaatc ccatatattt taatgtgctt gcatgatggg aatgtgactt ttagcactgc 6360
atgggtgttg ggggcaagat attaatgtgg aaatcttagc ttaagtttta ctgtgctctc 6420
atcctgtgtc agctaccctt ctaaaactgaa aaagaggcat ggctcatttc tctcctgctt 6480
tatgtttttg aggttgactt gtaagataaa aataaaaaata agaaaaaaat atatctaggc 6540
aaatgacatg aaaaaaaagt tgaatatata tactggtgtt catttttgtc ctgcagtgtt 6600
gctttctcaa agaaataaac atgtggctgg aaaaaaa 6637

```

<210> 218

<211> 3326

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 247289.1

<400> 218

```

tctagatctg tgccatgatc catacactgg ctaatagagt acataatttt tccattttcc 60
atttttttgt tttacttact actgaaggat ctgagatgta aaattatgta tttggtttga 120
gatggccact tattgtcctt aaaaatccat actgatatat gcagtcattt tgaattggac 180
agtgccctct cttttttttt ctctctctct tccatctccc tcacccatgc cccaccacca 240
tctaaagaga cagtgtgtga cactctcata gagatagaga agatctaaaa agttgagact 300
actcaatcca gttaacaaca gcaggagcac tagagtttgt tcatttattc tctctgtaa 360
acaagctgtg ctttttttct tctgccttta aaatgccacc cgtgtattca aaccatggcc 420
acttgatact tatgtagaat ccctcgtggg ctgatgcaag ccctttattt aggcttagtg 480
ttgtgggcac caatgtcgag catcgtttgt acttgtgctg tatgattctc actgaagaat 540
ttcctttcag ccaagaagca gtgaggtctg ggaatattcc aaagtcatgt ctctgaatat 600
gtgtcctgtg catgcaagct ttgtaaaacc ccctcccgc ttaggtgcga ggcatcacct 660
tctcacaagt gtttagtttc ttttaaccac aagtatcatt cttgggtgat aatatagttt 720
cattctactt agggattgtt tagaaaacaa agaaagagcc aattaaattt tttagttttt 780
gaaattttta tttatatgta tacttagatg agtattttta gctgtcgacc tttagttttg 840
catacgggta ggactgtatt tcatgttaac aactgggtgtt aatgataagc cttcttctag 900
cgtattttct cttctttcct gtcactttcc ttttttaagt tttttttttt aaagactgga 960
attttttttg gctttatctt gtcttaccgt agagatttgt tcaaaaactc aagccctacc 1020
acctccctct taataagctc tttaaatagt tgaatcatta acaacctggt gggaggcaag 1080
tcatttaatt gaaccactag gaagtgtatt ttcttttctt tttctgcaa ctttttggtg 1140
gcattttgta aagctgatat aaaaggctct gagatgttat tttcagttat tccataggca 1200
agccttttta cagagcatat gtctccagtt ggcagcttga gatatttccg agcatccggt 1260
tctagctacc agtgccctcc aatgcttagt gcacagtact gtagactggc catcacccct 1320
ctccttgga aatgccactg tgctgtttga aaaaaagcag ccttttaggg cttagagtatt 1380
ttatataaac agaagagcta agttcctgaa gactaagcta gatagctgca gctatatgta 1440
aattgtatat ttttatgaac ttttgaagca cacactctg tttccctctg ttagctttg 1500
tggggatttc atgtatatat gctgtctgaa agaatccaga ggttggagtg ccaatagaaa 1560
atgaaaacaa atgccttgta ctacaggcag cctctgaagg tgaccacata actgtottca 1620
ctgtgaccaa tccggagtcct tgcctgcttg tgaagaaggg gcttttgtac cttgttggag 1680
atgccacctc agaagttcac actgtgcagg aaaaagggtt tattctctcc tggcatacat 1740
tagaatgtca gatgcctgca tccatgtgga ccacgatggg cctctaaaaa ttggtgggca 1800
gggggtttgc ttatgagttt tctctggaaa ccgattttac tcttgatgt attgaaatgcc 1860
ccttgagctt tatgagatac gagtcacat ggataaaatg ttagagagtg gagttctaca 1920
gagatttcca ggaagaggcc atgtctgtgc agagacaggc gagaagctcc 1980
aggaactact ggctaccttg acaagctggg taaatagtta tcattctggg taactggttg 2040
aaactctgac ttttggaaca gtaattcctg ggggttctgtc tttggtagca tcaccaggga 2100

```

tatttgggtg	ggacagacag	aagacacaca	gctgcctgtt	ctctcctgcc	catcatgttt	2160
ggccactag	atgaagctgt	actcagcaat	ttagggatg	taacccttct	cagaactggc	2220
cattttcagg	ggaagcttgg	gagagcaata	gtatggtag	ccccttagag	atgagcgct	2280
actccttctt	ggcgaatgct	gccttcagat	gcttaccag	tggtcactgc	atctagtaag	2340
attatatttc	cagtacactt	ccttagggca	gaaacacat	cctatcaggt	ttggtcagtc	2400
ccttcttcat	gaagggagtc	atggggaatt	cctgaaaatt	ttcttccttc	tgcagacagt	2460
tggatgagtc	ccttagagaa	ggcatccaga	gacataacta	aactgaatat	catcccatat	2520
tgattttagg	aattgactct	aaaactctgt	gcagaatctt	gtgttgggat	tgtatcttga	2580
catctctgtt	gtgttatttt	tcttaactgg	agtgtgtgct	gccttccagg	tacaattttt	2640
gtgtaataaa	agccagtgc	ttaagtttat	atagactact	ttctatgcaa	gactgagata	2700
tggaatagat	aggaagagat	atgtactgct	gggtacatgg	acagtaagtg	tgttttcaga	2760
tggagtacca	gcaccgaaaa	tgggttgagg	gaggatgggt	tgtatgtatg	tttctgcccc	2820
ctaattttga	gcagccatgt	tatgaattaa	atcgtcacag	ccaagtaata	acccaagaat	2880
ggtatgtggt	tcatgtgtaa	tagctcaaat	ggaataagca	tgaatgctgg	agtggaccat	2940
tatcctcaaa	tattctatgt	cacttctcat	ttaaagactc	ttgttatgaa	ctattagaaa	3000
ctttaggcaa	aatcaaaagt	atgtgcggca	aaataaaggc	ctattctact	cttattttaa	3060
gtgaaacact	gtatacttgt	ttctctccaa	agcgaaatta	agtattttata	atttcaattg	3120
cctcgataag	tttccaagtc	actgaaatct	gctgaagggt	ttactgtatt	gttgcaaac	3180
tttaagataa	ttttgtctc	aatgtcaact	tttttctactg	aataaaaatt	taactgggtc	3240
aagaaaacac	ctctttgaaa	atccactgtc	tctgtgtgtc	togagctgtt	ctttagagcg	3300
caataaagat	ggctgacgca	gtctcc				3326

<210> 219

<211> 2878

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 331033.1

<400> 219

ggctcgggtt	gtgagggttc	ctgcttcgga	gtcggcggtg	gtcgtccaga	ccgagtgttc	60
tttacttttt	gtttggttga	ggtttcacgc	tagaagggtg	ctcaggatgt	cttcatcaca	120
ttttgccagt	cgacacagga	aggatataag	tactgaaatg	attagaacta	aaattgctca	180
taggaaatca	ctgtctcaga	aagaaaatag	acataaggaa	tacgaacgaa	atagacactt	240
tggtttgaaa	gatgtaaaaca	ttccaacctt	ggaaggtaga	attcttgttg	aattagatga	300
gacatctcaa	gggcttgttc	cagaaaagac	caatgttaag	ccaagggcaa	tgaaaactat	360
tctagggtgat	caacgaaaac	agatgctcca	aaaatacaaa	gaagaaaagc	aaactcaaaa	420
attgaaagag	cagagagaga	aagctaaacg	aggaatat	aaagtgggtc	gttatagacc	480
tgatatgcct	tgttttcttt	tatcaaacca	gaatgctgtg	aaagctgagc	caaaaaaggc	540
tattccatct	tctgtacgga	ttacaaggtc	aaaggccaaa	gaccaaattg	agcagactaa	600
gattgataac	gagagtgatg	ttcgagcaat	ccgacctggt	ccaagacaaa	cttctgaaaa	660
gaaagtgtca	gacaaagaga	aaaaagtgtg	gagccctgta	atgcccacgt	cgttgagaat	720
gactcgatca	gctactcaag	cagcaaagca	ggttcccaga	acagtctcat	ctaccacagc	780
aagaaagcca	gtcacaaagag	ctgctaata	aaacgaacca	gaaggaaagg	tgccaagttaa	840
aggaagacct	gccaaaaatg	tagaaaacaaa	acccgacaag	ggtatttctt	gtaaagtctga	900
tagtgaagaa	aatactttga	attcacaaac	agtggaatga	agtggaatga	atccagatgg	960
agtcttatca	aaaaatggaaa	acttacctga	gataaatact	gcaaaaaata	aagggaagaa	1020
ttccttcgca	cctaaggatt	ttatgtttca	gccactggat	ggtctgaaga	cctatcaagt	1080
aacacctatg	actcccagaa	gtgccaatgc	ttttttgaca	cccagttaca	cctggactcc	1140
tttaaaaaaca	gaagtgtgatg	agtctcaagc	aacaaaagaa	attttggcac	aaaaatgtaa	1200
aacttactct	accaagacaa	tacagcaaga	ttcaaaataa	ttgccatgtc	ctttgggtcc	1260
tctaactgtt	tggcatgaag	aacatgtttt	aaataaaaaa	gaagctacta	ctaaaaat	1320
aaatggcctt	ccaataaaaag	aagtccatc	acttgaaaga	aatgaaggtc	gaattgctca	1380
gccccaccat	ggtgtgtccat	atctcagaaa	tatcctccag	tcagaaactg	agaaattaac	1440
ttcacattgc	ttcgatggg	acaggaaact	tgaattggac	attccagatg	atgctaaaga	1500
tcttattcgc	acagcagttg	gtcaaacaag	actccttatg	aaggaaaggt	ttaaacagtt	1560
tgaaggactg	gttgatgatt	gtgaatataa	acgaggtata	aaggagacta	cctgtacaga	1620
tctggatgga	ttttgggata	tggttagttt	tcagatagaa	gatgtaatcc	acaaattcaa	1680
caatctgata	aaactgtgag	aatctgggtg	gcaagtcaat	aataatatga	atcataatat	1740
gaacaaaaat	gtctttagga	aaaaagtgtg	ctcaggtata	gcaagtaaac	caaaacagga	1800
tgatgtctga	agaattgcag	cgagaaatcg	cctagctgcc	ataaaaaatg	caatgagaga	1860
gagaatttag	caggaagaat	gtgctgaaac	agcagtttct	gtgataccaa	aggaagtgtga	1920
taaaaatagtg	ttcgatgctg	gatttttcag	agttgaaagt	cctgtttaat	tattctcagg	1980
actttctgtc	tcttctgaag	gcccttctca	aagacttggg	acacctaaagt	ctgtcaacaa	2040
agctgtatct	cagagttagaa	atgagatggg	cattccacaa	caaactacat	caccagaaaa	2100

```
tgccggtcct cagaatacga aaagtgaaca tgtgaagaag actttgtttt tgagtattcc 2160
tgaaagcagg agcagcatag aagatgctca gtgtcctgga ttaccagatt taattgaaga 2220
aaaccatggt gtaataaga cagacttgaa ggtggattgt ttatccagtg agagaatgag 2280
tttgctctct cttgctggtg gagtagcaga tgatattaat actaacaaaa aagaagggaat 2340
ttcagatggt gtggaaggaa tggaaactgaa ttcttcaatt acatcacagg atgttttgat 2400
gagtagccct gaaaaaata cagcttcaca aaatagcatc ttagaagaag gggaaactaa 2460
aatttctcag tcagaactat ttgataataa aagtctcact actgaatgcc accttcttga 2520
ttcaccagggt ctaaactgca gtaatccatt tactcagctg gagaggagac atcaagaaca 2580
tgccagacac atttcttttg gtggtaacct gattactttt tcacctctac aaccaggaga 2640
atttgaatt taaaaataaa tccaaacatt ttcttccata ttatcaatgc ttatatattc 2700
cttagactat tgaaattttg gagaaaatgt atttgtgttc acttctatag catataatgt 2760
tttaatatcc tgtgttcac aaagtgtatt ttagatatac tctttctcaa ggggaagtggg 2820
gatattttgt acattttcaa cacagaataa aaaatgtact gtgaaaaaaa aaaaaaaa 2878
```

<210> 220
<211> 1339
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1098766.1

```
<400> 220
ctttattttt cataagctaa tgtaaatgaa gaaaaaatgt cttctctggg ctgtaggcct 60
ggctcagcgt acacaggat acatcctaag ctctctatgt tctctaattc gtggtgactg 120
aacatgtgtc tcaatgcacg gggcatttct acctgtgttt ctgcagcacc cccactgcct 180
tgagtcccca gcagtgtgtg tatttgccta acacctgtag ccacttgcca cgcagccaga 240
cgtgaaagct gagacagaga ccatttaggt taaatacgac agcttatcct gctgggtggg 300
gaaagtaaaa aatatgctgg ttcaaggcct aaagtaaaat gatcaataat gttttagca 360
ttaatgaaat attttcaaga aatgtgtcca ggggtagcac tggctatgtt gacgaggcct 420
ttggttaact agagagctct tggccctgat ggggacttgc ccttacgctt tctttatcag 480
gctctgagtt cacacggagc ctctggcact tccctgctgt cttgggagaa aggaaactgg 540
ttgccgcggc aggttgtgga atctgttgcg ggaaccaggc tggaaagcca cctggtagtg 600
aacaggggcc agtggggcag gctgggcatg ttgtggtcta tgggtttgtt tcctggagaa 660
tgttcaggaa tctcttccca gctgctttgg tgctgagctc tattatctca cagcacgtcc 720
agaaggctaa cccagggtggg gaggatgctg acaccagctc cagggtggagt tgggtgtctt 780
aatttgagaa tgcaggggca acctgtgacc ctttgaggca agagccctgc acccagctgt 840
cccgtcgacg cgtgggcagg ggctgcacac ggaggggcag gcgggccagt tcagggtccg 900
tgccaggccc tccctcagtc cctgtgaagg cctcctgtcc tccgtgcggc tgggacaccg 960
caccagggag tttctatggc aaccttagtg attattaagg aacactgtca gttttatgaa 1020
catatgctca aatgaaattc tacttttagg ggaaggatt ggaacagcat gtcacaaggc 1080
tgtaattaa cagagagacc ttattggatg gagatcacat ctgttaaata gaatacctca 1140
actctcaggt gttttcttgg agataataaa tagtttcaag tttttgtttg tttgttttac 1200
ctaattacct gaaagcaaat accaaaggct gatgtctgta tatggggcaa agggtcagta 1260
tatttttcag tgtttttttt ctaccagcta ttttgcattt aaagtgaaca ttgtgtttgg 1320
aataaatact cttaaaaaaa 1339
```

<210> 221
<211> 2824
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 245632.3

```
<400> 221
tcgccgccgc cgccgccgcc gcctcagcct tcgcctcagc cgccgccgcg tcccgccgcg 60
gcgcgcggga tggacgatca atccaggatg ctgcagactc tggccggggg gaacctggct 120
ggccactcgg tgcagggggg catggccctg ccgcctcccc cgcagggcca cgaaggggag 180
gacggcgagc gcaggaagca ggacatcgcc gacatcctcc accagatcat gaccatcacc 240
gaccagagct tggacgaggc gcaagcaaa aaacatgccc tgaactgtca cagaatgaaa 300
ccagcgctct tcagcgctct gtgtgagatc aaagagaaaa caggctctcag catcagagga 360
gccagggagg aggacctcc cgatccccag ctaatgagac tggacaatat gcttttggca 420
gaagggtgtt caggtccctg gaaagggtgg ggatcggcgg cagcagctgc agccgcggca 480
gcctctggag gttcttcaga taactctatt gaacactcag attacagagc caaattgacc 540
```


cagatcagac	aaatctatca	cacagaactg	gagaaatatg	aacaggcatg	taatgaattt	600
actacacatg	tgatgaacct	tctccgagaa	cagagtagaa	cacgtcccat	ttctccaaaa	660
gagattgaaa	gaatgggtgg	catcatccat	cgaaaattta	gttccattca	gatgcagctc	720
aaacaaagca	cttgtgaagc	agttatgatt	ttaagatcaa	ggttccttga	tgccagacgg	780
aaaagcgcta	acttcagttaa	acaggccaca	gaaatcttga	atgaatatatt	ttactcacac	840
ctcagcaacc	cctaccccag	tgaagaagcc	aaagaggagc	tggccaagaa	atgcagcatc	900
acagtgtcac	aggtatccaa	ttggtttggc	aacaaacgaa	tcaggtagaa	gaagaacatt	960
ggcaagtttc	aggaagaagc	caacctctat	gctgcaaaga	cggccgtgac	agctgcacac	1020
gcagtagcag	cagctgtgca	gaacaaccag	accaattcgc	ccaccacacc	aaattccggt	1080
tcttctggtt	cttttaacct	cccaaattct	ggggacatgt	tcatgaacat	gcagagtctg	1140
aatggggatt	cttaccaagg	gtcccaagtc	ggagccaatg	tgcaatcaca	ggtggatacc	1200
ctccgtcatg	ttatcaatca	gacgggaggc	tacagtgatg	gccttggagg	aaattcactg	1260
tacagtcac	ataatttaa	tgctaattga	ggctggcagg	acgcaacaac	tccatcttct	1320
gtgactcttc	ctacagaagg	cccagggaagt	gtgcactcgg	atacctctaa	ctaattctctg	1380
gccacacttt	tccctgagct	acatgccttg	ataagtgcatt	tcagagcaat	aggaggaaaa	1440
ggaaagcggt	tttgtagccc	accatctaca	gctttactgt	aaaaccttgt	cttattcgag	1500
aacttggtaa	atctgttttt	taaggaatca	taatcatttg	tattttatact	taaaaacaca	1560
caatgtttaa	aaaaataaag	cactttatcc	aataggcca	agatttaaca	ttgttgacag	1620
tctgtagct	attttatcat	aatattattat	caatatattta	cattaatggt	ttcacagttg	1680
ccaattactt	ggccttaagg	gtaaaaagta	caatatacac	taaacctcaa	ccgttaaagc	1740
agatgcaaaa	attcacctca	cctaaattga	acttcttgca	tatttccatt	actgacttgg	1800
attgtcttct	tttcatatca	ctaattggagt	tggaataaag	agctgtttgc	ctatccctgt	1860
taatgatggt	tgtgtttaag	aatcttctct	gtcacgtttg	tgttcagatc	tcttatgtta	1920
taattagatc	agagactggt	agcatcgctt	ctctctctga	aagcaccagt	gcccagagtc	1980
tgctcggtaa	taaaattatg	gatccagatt	gttctgagag	acgaagatac	ttgctgctga	2040
tagagtgaa	aacgagattg	atccgtctgg	ggttttacgg	tgtgcactgg	gtgctgcaca	2100
gactgtgcaa	gggtttgtac	gtcctctggg	catctgcaaa	aggccctgct	ctctggagtg	2160
ttgtatatag	tgtagcaaaa	gagtatttat	acatcccacc	aatcaaaaca	cagctttatt	2220
acctcatgcg	aactcataca	aaaccaataga	atttcaacat	gttctgtagc	ttagagtgtc	2280
cacttactac	ctctgaacaa	tactcacgct	gtagtttgtc	tctttcttat	ctttttgcat	2340
cttgtaatca	actctttgtt	tcccttcata	aaatgtaattg	tacattgtaa	tcttttaaaa	2400
gaaaaatcag	ggttgcaatt	gcaactttta	aaaaaccgag	tgtggaaaca	ttgggtctta	2460
attcaacaca	ggatcggtaa	aactgttgta	aatactgaga	aacattttga	atgttcttca	2520
tcttattact	aatccatgca	aaaaaaaaaa	aaaagcagcg	actaatgttg	atgcattcag	2580
atttcagtat	tcagttactgt	atatttcacc	ctgtgtaattg	gggcccctc	tctttctct	2640
ctttttgtat	tgtatgcgat	tctgaaactg	atttgatcat	gaaaataatt	tgtggcggtg	2700
attctaattgt	attaaaaacg	tttcgtgttc	ctttctaact	ggattacacc	ctggattgaa	2760
aaagtcttcc	tcgtggtagt	tatatgtagt	ttcaaacatg	aataaaacttt	ttgctttcat	2820
gatt						2824

<210> 222

<211> 3082

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 333461.2

<400> 222

gtctcgacgc	gcgcgattta	aaaccagctc	aggagacgcc	aaggaaagat	gggacctccc	60
ggcccagcac	tgccagccac	aatgaataac	tcttcttcag	agacgcgagg	acacccccac	120
agtgcctcct	ctccttcaga	gcgtgtgttc	ccgatgcccc	tgcccaggaa	ggcgctctctc	180
aatattcctg	gcacccagct	cctcgaagac	tttcttcaga	atgacgatga	gaaggagcgg	240
ctgcagcgga	ggcgctcgag	ggtctttgat	ctgcagttca	gcactgactc	acctcgctta	300
ttggcctccc	cctccagcag	gagtattgac	atttcagcta	ctatccccaa	gtttacaaac	360
acgcagatta	cggaacatta	ctccacctgt	atcaaactgt	ccactgaaaa	taaaatcact	420
accaagaatg	cttttggttt	gcacttgatt	gattttatgt	cagagattct	taaacagaaa	480
gacaccgaac	caaccaactt	taaagtggct	gcgggtactc	tggatgccag	caccaagatc	540
tatgctgtgc	gcgtggatgc	cgtccatgcc	gatgtataca	gagtccttgg	ggggctgggc	600
aaagatgcac	cgtctttgga	agaagtagaa	ggccatgttg	ctgatggaag	tgctactgaa	660
atgggaacaa	caaaaaaggc	tgtaaagcca	aagaagaagc	acttacacag	aactattgag	720
cagaacataa	acaacctcaa	tgtctccgaa	gcagatcgga	agtgtgagat	tgatcccatg	780
tttcagaaga	cagcagcctc	atttgatgag	tgcagcacag	caggggtgtt	tctgtccact	840
ctccactgcc	aggactacag	aagtgaactg	ctgtttccct	ctgatgtcca	gactctctcc	900
acggggagaa	ctctcgagtt	gccagagtta	ggttgtgtta	gaaatgacag	atttaaaagc	960
gcctccttgc	agcagtgtgc	agaagatcgc	cagatctgcc	cttccctggc	cgggttccag	1020

tttacacagt	gggacagtga	aacacataat	gagtctgtgt	cggccctggt	agacaagttt	1080
aagaagaatg	accaggtatt	tgacatcaat	gctgaagttg	acgagagtga	ctgtggagac	1140
ttccccgatg	ggccccctgg	ggatgacttt	gatgccaaacg	atgaacctga	ccacaccgca	1200
gttggggatc	atgaagagtt	caggagctgg	aaggagccct	gccagggttca	gagctgccag	1260
gaagaaatga	tttcccttgg	ggatggagac	atcaggacca	tgtgccccct	tctgtctatg	1320
aaacctggag	aattattctta	tttcagtcct	cggaccatgt	cgatgtgggc	tggcccggtat	1380
cactggcgct	ttaggcctcg	acgcaaacaa	gatgtcctt	cccaatcaga	aaacaaaaag	1440
aagagtacaa	aaaaagattt	tgaaattgac	tttgaagatg	atattgactt	tgatgtatat	1500
tttagaaaaa	caaaggctgc	tactattctg	accaagtcca	ctttggagaa	ccagaattgg	1560
agagctacca	ccctctctac	agatttcaac	tacaatgttg	acactctggt	ccagcttcac	1620
ctcaaacag	gcaccaggtt	acttaagatg	gcccagggcc	atagggcaga	gactgagcat	1680
tatgaagaaa	ttgaagacta	tgattacaac	aaccctaacg	acacctccaa	cttttgccct	1740
ggattacagg	ctgctgacag	tgatgatgaa	gatttggatg	acttatttgt	gggacctggt	1800
gggaactctg	aacctctacc	ttatccttgc	catccaccta	agacagcaca	acagaatggt	1860
gacactccag	aagcccaagg	attagacatc	acaacatatg	gggagtcaaa	cttggtagct	1920
gagcttcaga	aggtaaataa	aattgaaatt	cactatgcc	agactgccaa	aaagatggac	1980
atgaagaaac	tgaagcagag	catgtggagt	ctgctgacag	cgctctccgg	aaaggaggca	2040
gagcagagg	caaaccacag	ggaagctgga	aaagaagcgg	ccttggcaga	agtggctgac	2100
gagaagatgc	ttagcgggct	cacgaaggac	ctgcagagga	gcctgcccc	tgtcatggct	2160
cagaacctct	ccatacctct	ggcttttgcc	tgtctcctac	atthagccaa	tgaaaagaat	2220
ctaaaactgg	aaggaacaga	ggacctctct	gatgttcttg	tgaggcaagg	agattgagtt	2280
cactatggag	aagtccagag	caggaggccc	atcccttact	cagttgccgg	gacatcccca	2340
gtctcggggg	aagaagatgc	catgggctta	taccaggct	gtagccaact	accaacgtgc	2400
ctgtttgttt	gttgcctctt	ccttctctcc	atcatagtct	gggtgccagc	gccctgaagc	2460
tccgtgctca	actgattaaa	ctttactgcc	ctatggtgac	catctaggag	agggggagggc	2520
agagggggtg	agggtactat	tctggattga	gaaaacctat	atccattctt	tatatcaatg	2580
tatagtttta	gtctctctaa	ttgatctggt	attttccaaa	ctattctctt	gtagaaaatt	2640
ttccagtggg	cacttaatgg	tgcccttgaa	gaacttcccta	atccatgtac	ataaaaataca	2700
tcatatgtac	acttataaat	gtatatagaa	tgtctcaaaaa	taaaattctt	aataatagaa	2760
ctggcaaaa	atttgagtgt	ccactagatg	agtatcagac	ctagtcctta	cccttagggg	2820
gatgcagtc	tggttgttat	ccaggataca	cactgtctag	tataaggcag	aagatgccta	2880
agggccaaga	tggtttgcct	cggaggagaa	tggaagagag	agattgctga	ctggacattc	2940
agatgcaaga	ctgggtctcg	cttaaatccc	aggattctgc	tggaggggagc	tgatagtgat	3000
acttgctcct	tctgtacatt	gcttcatgta	gccttctcag	catccctagg	agaaacttac	3060
tattgtgact	ctcatgttgg	ag				3082

<210> 223

<211> 3394

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 347876.6

<400> 223

gaattcggga	cgagcgagtc	gcgacgtcgt	cggcaagcgg	ccgccttcca	cgtaacgcgc	60
gccggcgggg	gagggcggtg	gcgcgggagc	gacgggaacg	tccgcgctgc	ggagcagggc	120
aggggaagccg	ggaggcgggc	ccggccccgag	cttgtccttg	tccgcgaggt	actccgagca	180
ctatgtctg	cccggcgctg	accccgagcc	gccgcggcag	ccggcggtgga	agggccaccc	240
ccgcccagac	gcctcggagt	gaggatgcc	ggtcatctcc	ctctcagaga	cgtagaggcg	300
aggattccac	ctccacgggg	gagttgcagc	cgatgccaac	ctcgcctgga	gtggacctgc	360
agagccctgc	tgcgcaggac	gtgctgtttt	ccagccctcc	ccaaatgcat	tcttcagcta	420
tccctcttga	ctttgatgtt	agttcaccac	tgacatacgg	cactcccagc	tctcgggtag	480
agggaaacccc	agaagtgggt	gttaggggca	cacctgtgag	acagaggcct	gacctgggct	540
ctgcacagaa	gggctgcaa	gtggatctgc	agtctgacgg	ggcagcagca	gaagatatag	600
tggcaagtga	gcagtctcta	ggccaaaaaac	ttgtgatctg	gggaacagat	gtaaatgtgg	660
cagcatgcaa	agaaaacttt	cagagatttc	ttcagcgttt	tattgacctt	ctggctaagg	720
aagaagaaaa	tggtggcata	gatattactg	aacctctata	catgcaacga	cttggggaga	780
ttaatgttat	tggtgagcca	tttttaaatg	tgaactgtga	acacatcaaa	tcatattgaca	840
aaaaatttga	cagacaactc	atctcttacc	cacaggaagt	tattccaact	tttgacatgg	900
ctgtcaatga	aatcttcttt	gaccgttacc	ctgactcaat	cttagaacat	cagattcaag	960
taagaccatt	caacgcattg	aagactaaga	atatgagaaa	cctgaatcca	gaagacattg	1020
accagctcat	caccatcagc	ggcatgggtga	tcaggacatc	ccagctgatt	cccagatgct	1080
aggaggccct	cctccagtg	caagtgtgtg	cccacacgac	ccgggtggag	atggaccgcg	1140
gcgcatttga	gagccagtg	tgtgcgggcy	ctgccacacc	acccacagca	tggcactcat	1200
ccacaaccgc	tccctcttct	ctgacaagca	gatgatcaag	cttcaggagt	ctccggaaga	1260

catgcctgca	gggcagacac	cacacacagt	tatcctgttt	gtccacaatg	atctcgttga	1320
caagggtccag	cctgggggaca	gagtgaaatgt	tacaggcatc	tatcgagctg	tgccatttcg	1380
agtcaatcca	agagtgaagta	atgtgaagtc	tgtctacaaa	accacattg	atgtcattca	1440
ttatcgga	acggatgcaa	aacgtctgca	tggccttgat	gaagaagcag	aacagaaact	1500
tttttcagag	aaacgtgtgg	aattgcttaa	ggaactttcc	aggaaccag	acatttatga	1560
gaggcttgct	tcagccttgg	ctccaagcat	ttatgaacat	gaagatataa	agaagggaat	1620
tttgcttcag	ctctttggcg	ggacaaggaa	ggatttttagt	cacactggaa	ggggcaaatt	1680
tcgggctgag	atcaacatct	tgctgtgtgg	cgaccctggt	accagcaagt	cccagctgct	1740
gcagtacgtg	tacaacctcg	tcccaggggg	ccagtacacg	tctgggaagg	gctccagtgc	1800
agttggcctc	actgcgtcag	taatgaaaga	ccctgagaca	aggcagctgg	tcctgcagac	1860
aggtgctctt	gtcctgagtg	acaacggcat	ctgctgtatc	gatgagttcg	acaagatgaa	1920
tgaaagtaca	agatcgggtat	tgcatgaagt	catggaacag	cagactctgt	ccattgcaaa	1980
ggctgggac	atctgtcagc	tcaatgcgcg	cacctctgtc	ctggcagcag	caaataccat	2040
tgagtctcag	tggaatccta	aaaaaacaac	cattgaaaac	atccagctgc	ctcatacttt	2100
attatcaagg	tttgatttga	tcttctcat	gctggacct	caggacgaag	cctatgacag	2160
gcgtctggct	caccacctgg	tcgcactgta	ctaccagagc	gaggagcagg	cagaggagga	2220
gctcctggac	atggcggtgc	taaaggacta	cattgcctac	gcgcacagca	ccatcatgcc	2280
gcggctaagt	gggaagcca	gccaggctct	catcgaggct	tatgtagaca	tgagggaagat	2340
tggcagtagc	cggggaatgg	tttctgcata	ccctcgacag	ctagagtcac	taatccgctt	2400
agcagaagcc	catgctaaag	taagattgtc	taacaaagtt	gaagccattg	atgtggaaga	2460
ggccaaacgc	ctccatcggg	aagctctgaa	gcagtctgca	actgatcccc	ggactggcat	2520
cgtagacata	tctattctta	ctacgggat	gagtgccacc	tctcgtaa	ggaaagaaga	2580
attagctgaa	gcattgaaaa	agcttatttt	atctaagggc	aaaacaccag	ctctaaaata	2640
ccagcaactt	tttgaagata	ttcggggaca	atctgacata	gcaattacta	aagatatgtt	2700
tgaaagaagca	ctgcgtgccc	tggcagatga	tgatttccctg	acagtgactg	ggaagaccgt	2760
gcgcttgctc	tgaagccttg	tgagcaagga	aggctccctg	catgtcctgc	ttgctgcacg	2820
ccacatgggt	tggtctgca	tctcagttgg	ccgccatcag	tgtaaataga	gcttaaagtc	2880
atggtttggc	tgcataaaaa	ttttctaact	tgggttcaat	attttagtagt	aagtatctgt	2940
tttcattttt	ttcacgttat	aaataaaaaat	actatgctgg	ccactgcacc	cagcctttgt	3000
tttatttttt	attttttgag	aggtatgatt	ctttctagag	attttttctc	atggctacta	3060
ttagatcagg	aatgggtgat	tgagatttat	tagattctag	gttaacttct	accactttac	3120
cctaatacat	aaaacttttt	cctaataaaa	tgatggaagg	aataataactt	ggttacctgg	3180
cattattttt	cagtgaagaa	aaagctttac	taaccactac	atztatggaa	atttgtaggg	3240
gtaagtattt	tataggtcat	aaaaaacacc	ataatataac	gaatctcatt	ttctttaaat	3300
gtgaattaaa	tcctaacagt	catctttata	aaatgaccat	aggctaaaat	cttacgtgta	3360
agtactacta	caataaataa	tttctgaaac	cttt			3394

<210> 224
 <211> 557
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 413842.1

<220>
 <221> unsure
 <222> 459, 495-496, 503, 518-519, 538
 <223> a, t, c, g, or other

<400> 224						
gaaccccgaga	acaaccagct	ggatcaattc	tcataggagc	cacagcgcg	agactgtgaa	60
acatgggttcc	aaaactgttc	acttcccaaa	tttgtctgct	tcttctgttg	gggcttcttg	120
ctgtggagggg	ctcactccat	gtcaaaccctc	cacagtttac	ctgggctcag	gggtttgacg	180
tccatcagta	ggaaccagct	ccaatgcacc	aatgcaatgc	gggtaattaa	caattatcaa	240
cggcgatgga	aaaaccgaaa	tacttttctt	cttgcaactt	ttgctaattg	agttaattgt	300
tgtggtaacc	caactataac	ctgccctcat	aacagaactc	tcaacaattg	tcatcatagt	360
ggagtccagg	tgctttta	gtactgtaac	ctcacaactc	caagtccaca	gaatatttca	420
aactgcagggt	atgcgcagac	accagcgaac	atgttctana	tagttgcatg	ttgacaacag	480
ggatcaacga	cgggnncctc	canagtatcc	agtggttnna	gttcacctgg	atagcatnat	540
ctaagctcct	gtatcag					557

<210> 225
 <211> 3331
 <212> DNA
 <213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 235867.2

<220>
<221> unsure
<222> 2284-2423, 2441, 2444
<223> a, t, c, g, or other

<400> 225
ctcgagagtt gccggggagg agcggagcgg tgcggaggct ctgctcggat cgaggctctgc 60
agcgcagctt cgggagcatg agtgctgcag tgactgcagg gaagctggca cgggcacccg 120
ccgacccctgg gaaagccggg gtccccggag ttgcagctcc cggagctccg cgggcggctc 180
caccggcgaa agagatcccg gaggtcctag tggaccacag cagccggcgg cgctatgtgc 240
ggggccgctt ttggggcaag ggccgctttg ccaagtgtct cgagatctcg gacgcggaca 300
ccaaggaggt gttcgcgggc aagattgtgc ctaagtctct gctgctcaag ccgcaccaga 360
gggagaagat gtccatggaa atatccattc accgcagcct cgcccaccag cacgtcgtag 420
gattccacgg ctttttcgag gacaacgact tcgtgttctg ggtgttgagg ctctgccgcc 480
ggaggtctct cctggagctg cacaagagga ggaagccct gactgagcct gaggccccgat 540
actacctacg gcaaatgtg cttggctgcc agtacctgca ccgaaaccga gttattcatc 600
gagacctcaa gctgggcaac cttttcctga atgaagatct ggaggtgaaa ataggggatt 660
ttggactggc aaccaaagtc gaatatgacg gggagaggaa gaagaccctg tgtgggactc 720
ctaattacat agctcccgag gtgctgagca agaaagggca cagtttcgag gtggatgtgt 780
ggtccattgg gtgtatcatg tataccttgt tagtgggcaa accacctttt gagacttctt 840
gcctaaaaga gacctacctc cggatcaaga agaatagaata cagtattccc aagcacatca 900
accccgctggc cgctccctc atccagaaga tgcttcagac agatcccact gcccgccaa 960
ccattacaga cactgttaat gacgagttct ttacttctgg ctatatccct gcccgctctc 1020
ccatcacctg cctgaccatt ccaccaaggt tttcgattgc tcccagcagc ctggacccca 1080
gcaaccggaa gccctcaca gtccctcaata aaggcttggg gaacccccctg cctgagcgctc 1140
cccgggaaaa agaagaacca gtggttcgag agacagggtga ggtggtcgac tgccacctca 1200
gtgacatgct cactgagtc cagcagtgca atgectccaa gccctcggag cgtgggctgg 1260
tcaggcaaga ggaggtgag gatcctgcct gcacccccat cttctgggtc agcaagtggg 1320
tggactatcc ggacaagtac ggccttgggt atcagctctg tgataacagc gtgggggtgc 1380
tcttcaatga ctcaacacgc ctcatcctct acaatgatgg tgacagcctg cagtacatag 1440
agcgtgacgc tacctcacgc ttccgcaatt acatgagcga gcacttgctg aaggcagggt 1500
agatcacctt ccttaaatat ttccgcaatt acatgagcga gcacttgctg aaggcagggt 1560
ccaacatcac gcgcgcgaa ggtgatgagc tcgcccggct gccctacctc cggacctggt 1620
tccgcacccg cagcgcctc atcctgcacc tcagcaacgg cagcgtgcag atcaacttct 1680
tccaggatgc cccaagctc atcttctgcc cactgatggc agccgtgacc tacatgcagc 1740
agaagcggga cttccgcaca taccgcctga gtctcctgga ggagtacggc tgctgcaagg 1800
agctggccag ccggctccgc tacgcccga ctatggtgga caagctgctg agctcacgct 1860
cggccagcaa ccgtctcaag gcctcctaatt agctgccctc ccctccggac tggtgccctc 1920
ctcactccca cctgcatctg gggcccatac tgggttgctc ccgcggtgac atgtctgcag 1980
tgtgcccccc agccccgggt gctgggcaga gctgcatcat ccttgccagg gggggttgct 2040
gtgtaagtta tttttgtaca tgttcgggtg tgggtttctac agccttgctc ccctccccct 2100
caacccccacc atatgaattg tacagaatat ttctattgaa ttccggaactg tcctttcctt 2160
ggctttatgc acattaaaca gatgtgaata ttctttttct tgtatttctt gaggggtgct 2220
agggcctggg atccagcgaa catctctgct tcacagccc caggctgccc agcctctgcc 2280
agtnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 2340
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 2400
nnnnnnnnnn nnnnnnnnnn nnntgtgagc cactgcaccc nagnccctgcy gcttttctga 2460
ttctgagccc agccacagtc tcagctcttc agtgagccag caccggagacc atctgtgtgg 2520
catccagccc acctcacctc cctgtggccc cagggcatgg cctcctggcc tctgagctctg 2580
gcgggtagta gggcaggaag aggtctctcag aggcgcagct cctcatggct cgggtgcgtgt 2640
ggaggagcag ccgtgggaag cggtttgtga agtactggac gaagccatca gggacttggtc 2700
cgagtgcctg tcgcacctca actgggagct cctgtatgtg gtgcttcttg ttcctcacag 2760
cacggagcag gtctcgcact gatgtccctt tataggaccg gaactttctc agatctgtct 2820
gcagcggcat ggagatgtgc tcgtgccagt tgtcccgac cactgcgcag cctcccgctc 2880
ccagtgcctt caccaggggc tcctgtctcg actccttctc cagccagtcg ctgacgtctc 2940
ggaagaactg gagtgtcttg gctctgctcc aaaagaaggg gtgggcccagc acctggggggg 3000
cagagggggc tggctgcggc agtgggctcc aactggctcc aaccaggtcc cgggcaacca 3060
ccttgctgtg gacctcttcc tccaggtgag ccagacaggg agccctgtg aggatgtttg 3120
cctggcgata aagactgtct ccaaaggggt ggctgccacc agaaagcacg tagtagaaca 3180
cgcagcctgc agagaagatg tccacagcgc tggtaggact gtctggtggc aggagctgca 3240
gaagctcggg cgccatccag cctccgtgc cggggatgcc ggagtggagg ctgaagctac 3300
agcggccagc aggcagcttc ttgcagaggg c 3331

<210> 226
<211> 2432
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 428665

<400> 226
gtcacgggtg gcgggcgcgga gaaggggatt tggattgttg cgccctctgt ctgaagaaag 60
tgctgtcttg ctccaactcc agttctttcc cctgagcagc gcctggaacc taacccttcc 120
cactctgtca ccttctcgat cccgcccggc ctttagagcc gcagtccagt cttggatcct 180
tcagagcctc agccactagc tgcgatgcat gtgatcaagc gagatggccg ccaagaacga 240
gtcatgtttg acaaaattac atctcgaatc cagaagcttt gttatggact caatatggat 300
tttgttgatc ctgctcagat caccatgaaa gtaatccaag gcttgtacag tggggtcacc 360
acagtggaaac tagatacttt ggctgctgaa acagctgcaa ccttgactac taagcaccct 420
gactatgcta tcctggcagc caggatcgct gtctctaact tgcacaaaga aacaaagaaa 480
gtgttcagtg atgtgatgga agacctctat aactacataa atccacataa tggcaaacac 540
tctcccatgg tggccaagtc aacattggat attgttcttg ccaataaaga tcgcctgaat 600
tctgctatta tctatgaccg agatttctct tacaattact tcggctttaa gacgctagag 660
cggtcttatt tgttgaagat caatgaaaaa gtggctgaaa gaccacaaca tatgttgatg 720
agagtatctg ttgggatcca caaagaagac attgatgcag caattgaaac atataatctt 780
ctttctgaga ggtggtttac tcatgcttcg cccactctct tcaatgctgg taccaaccgc 840
ccacaacttt ctatgctgtt tcttctgagt atgaaagatg acagcattga aggcatttat 900
gacactctaa agcaatgtgc attgatttct aagctctgtg gaggaatttg tgttgcctgt 960
agttgtattc gggctactgg cagctacatt gctgggacta atggcaattc caatggcctt 1020
gtaccgatgc tgagagtata taacaacaca gctcgatatg tggatcaagg tgggaacaag 1080
cgtcctgggg catttgcctat ttacctggag ccttggcatt tagacatctt tgaattcctt 1140
gatttaaaga agaacacagg aaaggaagag cagcgtgcca gagatctttt ctttgcctct 1200
tggattccgg atctcttcat gaaacgagtg gagactaatc aggcactggc tttgatgtgt 1260
ccaaatgagt gtcttggctc ggatgaggtt tggggagagg aatttgagaa actatatgca 1320
agttatgaga aacaaggctg tgtccgcaaa gttgtaaaag ctacagcagc ttggtatgcc 1380
atcattgagt ctacagcgga aacaggcacc ccgtatatgc tctacaaaga ttcctgtaat 1440
cgaagagcga accagcagaa cctgggaacc atcaaagca gcaacctgtg cacagaaata 1500
gtggagtaca ccagcaaga tgaggttgcg gtttgtaatt tggcttccct ggccctgaat 1560
atgtatgtca catcagaaca cacatacgac tttagaagat tggctgaagt cactaaagtc 1620
gtgtccgaa acttgaataa aattattgat ataaactact atcctgtacc agaggcatgc 1680
ctatcaaata aacgccatcg cccattgga attggggtag aaggctctggc agatgctttt 1740
atcctgatga gatacccttt tgagagtga gaagcccagt tactgaataa gcagatcttt 1800
gaaactatct attatggtgc tctggaagcc agctgtgacc ttgccaagga gcagggccca 1860
tacgaaacct atgagggtc tccagttagc caaaggaatt ctccagtatg atatgtggaa 1920
tgttactcct acagacctat gggactggaa ggttctcaag gagaagattg caaagtatgg 1980
tataagaaac agtttactta ttgcccgat tccactacag tccactgctc agatcctggg 2040
gaataatgag tcattgaac cttacaccag caacatctat actcgcagag tcttgtcagg 2100
agaatttcag attgtaaatc ctactttatt gaaagatctt accgagcggg gcctatggca 2160
tgaagagatg aaaaaccaga ttattgcatg caatggctct attcagagca taccagaaat 2220
tcttgatgac ctgaagcaac tttataaaac ttgttgggaa atctctcaga aaactgttct 2280
caagatggca gctgagagag gtgctttcat tgatcaaagc caatctttga acatccacat 2340
tgcttgaggt ggtaaggctt tgctggaccc tgttcaggc aaaaggagta attgatttaa 2400
agtactgtta atgatgttaa tgattttttt tt 2432

<210> 227
<211> 1375
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 002234.3 .

<400> 227
ttggccacag cagcgcgagg cgggcacggg gtattgtccg gctccggcgg cggcggtcgg 60
tgctgcgaga gcggcgggcg cggcgcgggg cggcagcggg agggcgcgcg gccgagcgga 120
ggcgagtcg gcgcgagaa catggctgga ggcaaagctg gaaaggacag tgggaaggcc 180
aaggctaagg cagtatctcg ctacacagga gctgggctac agtttctctg gggccgcac 240
cacagacact tgaagactcg caccacaagc catggaaggg tgggtgccac tgctgccgtg 300

tacagtgtctg	cgattcttga	gtacctcact	gcagaggtgc	tggagctggc	aggtaatgct	360
tctaaggatc	tcaaagtaaa	gcgtatcact	ccgcgtcact	tgcagcttgc	aatccgtggg	420
gatgaagagt	tggattctct	tatcaaggct	accatagctg	gggggtgggt	gatccctcac	480
atccacaaat	ctctgattgg	aaagaaggga	cagcagaaaa	ctgcttagag	ggatgcttta	540
accaaccctc	ttcctccccg	tcattgtact	gtaactggga	cagaagaaat	aatjgggata	600
tgtggaattd	ttacaacag	ttaaatggaa	aagcatagac	aattactgta	gacatgataa	660
aagaacatt	tgtatgttct	tagactcgaa	gtttgataaa	agtacctttt	catgtgggtg	720
cagttgtgtg	ttgattggct	aggttttctc	cgtgtgtttt	atacaaaaat	ggaattgata	780
aaccattdtt	tacaaaatta	atttgtctca	aaactgttct	gttcattgatg	tattagaaat	840
attttactca	gactttaaat	attttaaatc	tcagattgggt	tattcagagt	aaccttagaa	900
cagaaattgg	gaatatatct	ttacaatgat	tgataccatg	gtatattgac	tcttagatgc	960
tattgatctg	tagcaccatt	ttttacaaac	gactaaggaa	aaaacctgcc	aattaaatca	1020
tgatattcca	tcaaatatga	gacatcccaa	tttgagagat	gttagattat	agaaaagtat	1080
gctttatgac	tgaaatggta	gtggaattat	ttgaattcta	caccaagcac	ttaccatgtg	1140
ccaggccctt	tgcagagtgc	tctactgacc	aagaaagtgt	ttcctgccac	attatagatg	1200
tggagcctaa	gggtcacaga	aattgtgtgc	tatgccaaaa	aacattgaac	tggtagatag	1260
aaaatgacag	agctaggatt	caaacctaga	tctggctgac	tccagagcct	agttttacct	1320
ggaattgatg	ttcagtttat	caaaggtttc	tccttttgggt	ttaaaatccc	aattt	1375

<210> 228

<211> 3631

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1000139.13

<400> 228

cgccggccgg	cccgcacagg	ctcactcgcg	cccttgccgc	tgccaccgca	ccccgccatg	60
gagcgccgct	cgctgcgcgc	cctgctcctc	ggcgccgctg	ggctgctgct	cctgctcctg	120
cccctctcct	cttcctcctc	ttcggacacc	tgcggccctt	gcgagccggc	ctcctgcccc	180
cccctgcccc	cgctgggctg	cctgctgggc	gagaccgcgc	acgcgtgcgc	ctgctgccct	240
atgtgcgccc	gcggcgaggg	cgagccgtgc	gggggtggcg	gcgcggcgag	gggggtactgc	300
gcgcctggga	tggagtgcgt	gaagagccgc	aagaggccga	ggggtaaaag	cggggcgagca	360
gccggcgggtc	cggtgtgaag	cggtgtgtgc	gtgtgcaaga	gccgtaccc	ggtgtgcggc	420
agcgacggca	ccacctaccc	gagcggctgc	cagctgcgcg	ccgccagcca	gagggccgag	480
agccgccccg	agaaggccat	caccagggtc	agcaagggca	cctgcgagca	aggtccttcc	540
atagtgcgcg	cccccaaggga	catctggaat	gtcactgggt	cccagggtga	cttgagctgt	600
gaggtcatcg	gaatccccgac	acctgtcctc	atctggaaca	aggtaaaaag	gggtcactat	660
ggagtccaac	ggacagaact	cctgcctggt	gaccggggaca	acctggccat	tcagaccctg	720
ggtggccccg	aaaagcatga	agtaactggc	tgggtgtctg	tatctcctct	aagtaaggaa	780
gatgtgggag	aatatgtgag	ccatgcatcc	aattcccaag	gacaggcttc	agcatcagca	840
aaaattacag	tggttgatgc	cttacatgaa	ataccagtga	aaaaagggtga	aggtgccgag	900
ctataaacct	ccagaatatt	attagtctgc	atgggttaaaa	gtagtcatgg	ataactacat	960
tacctgttct	tgccctaata	gtttctttta	atccaatcca	ctaactcttt	agttatatct	1020
actggtttta	cacagagaaa	tacaaaataa	agatcacaca	tcaagactat	ctacaaaaat	1080
ttattatata	tttacagaag	aaaagcatgc	atatcattaa	acaaataaaa	tactttttat	1140
cacaacacag	tacataattg	tcatttttaa	aaagccacac	aatagaaaca	agacaccaag	1200
atatttaatt	atcttgttga	ctcctgtaaa	atagctaaac	actcatcatt	cgcggtgcaa	1260
tactcataga	cataagttcc	tgaacaata	gtttgcatgc	gtaaggcatt	cgcaccaaag	1320
aaatctgggt	tttattgcgg	cagccccctgc	attcatatgt	atgggtcctg	gtgttggcaa	1380
tcgccattat	tccacaaaga	ttgcaaacat	gaacctgata	tggatctgat	gcctcaaaca	1440
atctttccct	taaaaaactgg	gctgctccat	gggcaatctg	acaatctcgt	tccatttctc	1500
caaaacgcag	gccaccatca	cgagatctac	cctccatggg	ctgtctattg	aggatctgaa	1560
taggtccccct	agcacgagag	tgaatcttat	catccaccat	atgcttcaaa	cgctggtaat	1620
aagtggggcc	aataaatatt	tgtgatgtga	tttttcgacc	agtgaaccca	ttgtacagga	1680
cctcatttcc	tctgagatga	tagccataat	cagataaaaag	attagaaatc	ttctgcacgt	1740
taacagcatc	attaaatgga	gtggcatcac	caatttcacc	cttggttagcc	gataccttcc	1800
cttgaaggca	ttcaaatga	tgaccaatag	tcatacgaga	ggggatggca	tggggattga	1860
tgtatgatc	aggggtgata	ccttcacagg	tgaaggcat	atcctcttgt	ctatactgaa	1920
taccacaagt	acccttttga	ccatgtcgac	tagcaaattd	gtctccaatc	tgtggaatcc	1980
taacagagcg	tacccttatt	ttacaaaatt	tatatccttc	ctgattgaga	gttaccataa	2040
cctgatccac	aatgcccgct	tcgctagtcc	tgagaaaagt	gctacagtct	ctcttggtat	2100
agcgtctatt	ggtgctctcc	aattcatctt	cttttccagg	caagggtgact	gttttgcta	2160
taataacatc	atctctgat	acacgaaccc	ctggagctat	caaaccatca	tcattccagct	2220
tgtcgtaaat	ggcatgcctc	atgccctggc	atgtttcacg	tgtaggcttc	tcaaaaactt	2280

```

cttcttgatc aaatcctttt ttagactcct gttcttttga tgagcgatag aaaacagacc 2340
tgaagaagcc gcggtctaca gctgaacgat tcatgataac agagtcttcc tgattatata 2400
cagtgatatga tgcaatggcc acaattgagt tgatgcctgc tggcagctct ctaaatacgta 2460
gatattccat agaccgtgta gtcacaagtg gcttttgagg ataatagaga acatggggcca 2520
atgtgtccat cgaacatggg aagttggtga tgtaaactcc catagcctgc ttaccatag 2580
cagactggta tgtgtttcta ggggactggt tatgatcagg aaaggggaata atagatgcac 2640
agacaccaag gatcattgag ggatgaatct cacagtgtgt atatgtggaa caataagcta 2700
cttctttctc ctgtaaatca tctggagtca ttgcaagcat cactgtttct tcttccaggg 2760
tatcaatata ctcactacc ccactggcca caagatcctg ccaactatag ttgttatatt 2820
ctctctcttt caattggtea atatgcctct tcttcaaaag tagcttttgt ttttccacaa 2880
tcagaagtgg tctacaata cggcctgcat ctgtatagat ccgaatctcc ctctctcgaa 2940
tatctctgat catagaaact tcagacacaa tgatgtccat ctgacgtctc aatttccetta 3000
gggtgttccg aagtgttctg ggatctttat gtattccaac ccagcagcca ttaacaaaaa 3060
tcttggttgc atcgacaata cgtgcaggag aaatttcttc taaattttcc atactccatt 3120
cttctaaaaa ttccagaatt ggagatggtt gagatccaac tgaaatatat gccatcaagg 3180
ctaaattctt cacaagtcct acagcatggc cctctggggt ctggcgagga cacaccattc 3240
cccacaacgt attatgcaac tgtcttgggt ttgctagctt gccgtctcta ccaataggag 3300
aatttaaacg acgcagtgga gaaagagtag acgcaaaagt caggcggttt aacacctgag 3360
atactccagc tctggcttga tgagctttct tttgatcacc ccagtttcca gtagctaaag 3420
agtatttttag gccatcagat atgatccgtg ttttaattgc caactccaag ttaaaatcct 3480
ttctctgatc aataaatttc tgtgcataga tccgcacttc tttaagcaaa ttcttaaaaa 3540
tacctctaaa taagaatgca agcagcgcc caacaagatc caatctcttg ttccatagt 3600
gatctctgtc atctagttct cttctacca a 3631

```

<210> 229

<211> 2806

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 998534.1

<400> 229

```

agattcgcgg ccgcgtcgac ggtgcccga cccgtcccgc cgggcgccc cgggacgcgc 60
cgccagggcc ctctccgcgc ggggctcggc gctcgccac ctcttccaaa tttaaccatt 120
acctaaatcc gaagggaat gagcaaacct ctoggattgg gtgtcaagggt ctctccgcgg 180
ctggggctga gcaagccctc ggagtgcagg tgggtgacag cggtccagg gactcttggg 240
gcgcagtggg gaaagtgcg gaccaccat ccgcctcat ttctcgtcaa aagcaagaag 300
gctcacagct accaccagcc gcgtcccca ggaccagact attccctccg tttagagaat 360
gtaccggcgc ctagccgagc agacagcact tcaaatgcag gcggggcgaa agcggagccc 420
cgggaccgtt tgtcccccga atcgagctg accgaagccc cagacagagc ctccgcattc 480
ccagacagc tgcagtcgag cgtctgcgaa cggagctcgg agtttgagga ctctggagg 540
ccccgtcac cctccgcgtc tccagcctcg gagaagtcaa tgtgccatc gctggacgaa 600
gccagccct tccccctgcc tttcaaaccg tactcatgga gcggcctggc gggttctgac 660
ctgcggcacc tgggtgcagag ctaccgaccg tgtggggccc tggagcgtgg cgctggcctg 720
ggcctcttct gtgaaccgcg cccggagcct ggccaccgcg ccgcgtgta cggcccgaag 780
cgggctgcgc gcggcgcggg ggccggggcg ccagggaact gcatcgagg ggccggtgcc 840
accgctggcc ctggcctagg gctctacggc gacttcgggt ctgcggcagc cgggctgtat 900
gaaaagccca cggcagcggc gggcttgcgt taccocgagc gtggccaccg gctgcacgca 960
aacaaggcg ctggcgtcaa ggtggagtgc gagctgctgt gcacccgcct gctgctgggc 1020
ggcggctcct acaagtgcac caagtgcagc aaggtgtttt ccacgcgca cgggctcgag 1080
gtgcacgtgc gcaggctcca cagcggtaac agaccctttg cctgcgagat gtgcggcaag 1140
accttcgggc acgcggtgag cctggagcag cacaagccg tgcactcgca ggaacggagc 1200
tttgactgta agatctgtgg gaagagcttc aagaggtcat ccacactgtc cacacacctg 1260
cttatccact cagacactcg gccctacccc tgtcagtact gtggcaagag gttccaccag 1320
aagttagaca tgaagaaaca cactttcatc cacactgtg agaagcctca caagtgccag 1380
gtgtgcggca aggcattcag ccagagctcc aacctcatca ccacagccg caaacacaca 1440
ggcttaagc ccttcggtcg cgacctctgt gggaagggtt tccagaggaa ggtggacctc 1500
cgaaggcacc gggagacgca gcatgggctc aaatgagcac cctggctggc tgcaagcagc 1560
agctacaaa cactacagag ggcagcctcc ctgcttgcca ccactctgct cctctgttgc 1620
ctccactccc ttctgacttt ccagacccca ggtccagtct gcagatccta ccaggttgct 1680
cctccttgc cttacctcct ggagctgcc gaagaaatga ggtacccttt caaagtgcag 1740
ccgagagtga gaaccaagt actctctagg cttcggacac aaataggctc ctctacacct 1800
gaagacaaag gcaaagtcaa atggggacca taataaatct tagaccacac agtccctccc 1860
atttccagcc ctaatctaca gacaggaatg ccttcagggt ttcttccctc cccctcttgc 1920
acctacccca gatatttgtg tgggaaggga ggaatcacca tttacaagggt ggacaaatgc 1980

```

taatatTTTT	atctagaaag	aagagtgagt	gttaactttt	atttttttcc	ttctgggggg	2040
tctgttgact	cctttctttt	gggtgctgcc	tataaatctt	ggaggaatca	tttctctccc	2100
tcaaaaactg	attcagaaac	tgacttgggg	aaggaattta	atactttgaa	gtcatgagat	2160
gcaccatcga	ggctaccccc	aagaagaagc	agaagagaag	ttggtaatga	gaggggatta	2220
gaggtcctcc	cttcagtagg	gctgtgaaaa	cctcatcact	ggaggtaaaa	gcacaagcaa	2280
tgctgtgga	caagatgtca	ttcattcact	cagcaaatgt	tcatggatca	ccggctacca	2340
aggtaccagg	caccatgcta	ggtattgggg	aagagagact	gaagtcacaa	cccctgactg	2400
ctctcaaaa	gctaacgggt	gcacctccaa	gtggctgggt	ctgttcttac	tcttggaggg	2460
aattctgaga	agacagcaca	gaattgtaaa	ccttcccttt	tgacctttt	ggatttttcc	2520
aggtgtaaac	aaaaagctga	acagttactt	caaagatatg	tgtgtatatt	cagtttttta	2580
ttgttaagct	gatattttaa	agatttctga	gctagcaggc	atgtgggaag	gaaggctctg	2640
tcttcaactc	tttgacctc	catgtgtacc	atagaggggg	gaaaggtggt	attttcactt	2700
tgatgaggtt	ggtaaatggt	tttagatctt	ctggtaagca	ttatgtttgt	taatacatat	2760
ttattagagt	gatgttttaa	gttaataaag	tattaagagt	aaacaa		2806

<210> 230

<211> 2844

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 372377.6

<400> 230

gttgaagct	cctggcgcg	ggggcgggac	tcacccctg	ccgggcagcc	cagcgccctc	60
ggcgcaact	ccagctctct	gcgcagcccg	ccgcgcagcc	cgccgcccc	gcatggggcg	120
aagcccctga	cggaccagga	gaagcggcgg	cagatcagca	tcggcgccat	cgtgggcgtg	180
gagaacgtgg	cagagctgaa	gaagagtttc	aaccggcacc	tgcacttcac	gctgggtcaag	240
gaccgcaacg	tgccaccac	ccgcgactac	tacttcgcgc	tgggcgacac	ggtgcgcgac	300
cacctgggtg	ggcgctggag	ccgcacgcag	cagcactact	acgacaagtg	ccccagagg	360
gtatattacc	tctctctgga	atltttacatg	ggccgaacat	tacagaacac	catgatcaac	420
ctcgggtctgc	aaaatgcctg	tgatgaggcc	atlttaccagc	ttggattgga	tatagaagag	480
ttagaagaaa	ttgaagaaga	tgctggactt	ggcaatgggt	gtcttgggag	acttgcctgc	540
tgcttcttgg	attccatggc	aaccctggga	cttgcagcct	atggatacgg	cattcggtat	600
gaatatggga	ttttcaatca	gaagatccga	gatggatggc	aggtagaaga	agcagatgat	660
tggtcagat	atggaaaccc	ttgggagaag	tcggcgccag	aattcatgct	gctgtgcac	720
ttctatggaa	aagtagaaca	caccaacacc	gggaccaagt	ggattgacac	tcaagtggtc	780
ctggctctgc	catatgcac	ccccgtgcc	ggctacatga	ataacactgt	caacaccatg	840
cgctcttgg	ctgctcgggc	accaaagtac	tttaacctca	gagactttta	tgttggagac	900
tacattcagg	ctgtgctgga	ccgaaacctg	gccgagaaca	tctcccggt	cctctatccc	960
aatgacaatt	tttttgaagg	gaaggagcta	agattgaagc	aggaataact	tgtggtggct	1020
gcaaccttgc	aagatcatcat	ccgcctgttc	aaagcctcca	agtttggctc	caccgctggt	1080
gcaggaactg	tgtttgatgc	cttcccggt	caggtggcca	tcagctgaa	tgacactcac	1140
cctgcactcg	cgatccctga	gctgatgagg	atltttgtgg	atattgaaaa	actgccttgg	1200
tccaaggcat	gggagctcac	ccagaagacc	ttcgccctaca	ccaaccacac	agtgcctccc	1260
gaagccctgg	agcgctggcc	cgtggacctg	gtggagaagc	tgctccctcg	acatttggaa	1320
atcatttttg	agataaatca	gaagcattta	gatagaattg	tggccttgtt	tcctaaagat	1380
gtggaccgtc	tgagaaggat	gtctctgata	gaagaggaag	gaagcaaaa	gatcaacatg	1440
gcccattctt	gcattgtcgg	ttcccattgct	gtgaatggcg	tggctaaaa	ccactcagac	1500
atcgtgaaga	ctaaagtatt	caaggacttc	agtgcagctag	aacctgacaa	gtttcagaat	1560
aaaaccaatg	ggatcactcc	aaggcgctgg	ctcctactct	gcaaccagg	acttgcagag	1620
ctcatagcag	agaaaattgg	agaagactat	gtgaaagacc	tgagccagct	gacgaagctc	1680
cacagcttcc	tggtgatga	tgtcttctc	cggaagactc	ccaaggtgaa	gcaggagaat	1740
aagctgaagt	tttctcagtt	cctggagacg	gagtacaaag	tgaagatcaa	ccatccctcc	1800
atgttttgat	tccagtgaa	gaggatacat	gacagctctt	gacagctctt	gaactgtctg	1860
catgtgatca	cgatgtacaa	ccgcattaag	aaagacccta	agaagttatt	cgtgccaaag	1920
acagttatca	ttggtggtaa	agctgcccc	ggatatcaca	tgcccaaaat	gatcataaag	1980
ctgatcactt	cagtggcaga	tgtggtgaac	aatgacccta	tggttggaag	caagttgaaa	2040
gtcatcttct	tggaagacta	cagagtatct	cttgctgaaa	aagtcatttc	agccacagat	2100
ctgtcagagc	agatttccac	tgaggcacc	gaagcctcgg	ggacaggcaa	tatgaagttc	2160
atgctaaatg	ggccctaac	tatcgggacc	atggatgggg	ccaatgtgga	aatggcagaa	2220
gaagctgggg	aagagaacct	gttcatcttt	ggcatgagga	tagatgatgt	ggtcgttttg	2280
gacaagaaag	ggtacgaggg	aaaagaatac	tatgaggcac	ttccagagct	gaagctgggtc	2340
attgatcaaa	ttgacaatgg	cttttttct	ccaagcagc	ctgacactct	caaagatatc	2400
atcaacatgc	tattttatca	tgacaggttt	aaagtctttg	cagactacga	agcctatgtc	2460
aagtgtcaag	ataaagtga	tcagctgtac	atgaatccaa	aggcctggaa	cacaatggta	2520

ctcaaaaaaca	tagctgcctc	ggggaaattc	tccagtgacc	gaacaattaa	agaatatgcc	2580
caaaacatct	ggaacgtgga	accttcagat	ctaaagattt	ctctatccaa	tgaatctaac	2640
aaagtcaatg	gaaattgaac	tctacaatgt	ctctagaaaa	catagcttct	tactgaactt	2700
gaacattttt	acaacattca	ctggtttttg	ttttgttagc	taataatcta	taatagttga	2760
gtatctcttg	gaatggggag	ggaaattata	tgtaatagag	cttaaaaaata	aagtgtcaat	2820
ttccaaggga	aaaaaaaaaa	aaaa				2844

<210> 231

<211> 2554

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1101412.4

<400> 231

gctcgaggag	aaagtagctc	cagcagcacc	cgagagggtc	aggagaaaag	cggaggaagc	60
tggttaggcc	ctgaggggcc	tcggtaagcc	atcatgacca	cccggcaagc	cacgaaggat	120
cccctcctcc	ggggtgtatc	tcctaccctc	agcaagattc	cggtacgctc	tcagaaacgc	180
acgcctttcc	ccactgttac	atcgtgcgcc	gtggaccagg	agaaccaaga	tccaaggaga	240
tggtgcaga	aaccaccgct	caatattcaa	cgccccctcg	ttgattcagc	aggccccagg	300
ccgaagacca	ggcaccaggc	agagacatca	caaagattgg	tggggatcag	tcagcctcgg	360
aaccctctgg	aagagctcag	gcctagccct	aggggtcaaa	atgtggggcc	tgggccccct	420
gcccagacag	aggctccagg	gaccatagag	tttgtggctg	accctgcagc	cctggccacc	480
atcctgtcag	gtgaggggtg	gaagagctgt	cacctggggc	gccagcctag	tctggctaaa	540
agagtactgg	ttcgagggaag	tcagggaggc	accacccaga	gggtccaggg	tggtcggggc	600
tctgcataat	tggtcccccag	aacccccacc	caccgactgg	accctgccag	ggcttctctg	660
ttctctaggg	tggtggggacc	aggacctcga	ggccggacat	tggtccccca	gaggctacag	720
gctctgattt	caccttcagg	accttccctt	caccttcca	ctgcgccag	tttccaggag	780
ctaagaaggg	agcacagctg	cagcagccgg	acttcagtga	gccaggcctc	aggattgtct	840
ctgggagacc	cagtcacagc	tgctttctct	cttccataag	gagaacgcga	ggttgtcact	900
cactcagatg	aaggaggtgt	ggcctctctt	ggtctggccc	agcgagtacc	attaagagaa	960
aaccgagaaa	tgtcacatac	cagggacagc	catgactccc	acctgatgcc	ctccccctgc	1020
cctgtggccc	agcccttgcc	tggtccatgt	gtgccatgtc	catcaccttt	tggtacgggt	1080
cagcgtgtac	cctccccagg	ccctccaact	ctgacctcat	attcagtgtt	gcggcgctct	1140
accgttcaac	ctaaaaccgg	gttcacaccc	atgccatcaa	ccccagagt	tcagcaggcc	1200
cagtggctgc	gtgggtgtct	ccctcagtc	tgctctgaag	atcctgcctt	gccctggggg	1260
caggttggcc	tcgggttgtt	tgaccaggag	agttgtataa	ggtoacttga	gggttctggg	1320
aaaccaccgg	tggtccatcc	ttctggaccc	cactctaaca	gaaccccag	cctccaggag	1380
gtgaagattc	aacgcacatg	tatcctgcaa	cagctgttga	gacaggaagt	agaggggctg	1440
gtagggggcc	agtgtgtccc	tcttaatgga	ggctcttctc	tggtatgtgt	tgaacttcag	1500
cccctgctga	ctgagatttc	tagaactctg	aatgccacag	agcataactc	tggtgacttc	1560
caccttctcg	gactgtttaa	acactcaggg	ctgccaaaag	cctgtcttcc	agaggagtgc	1620
ggggaaccac	agccctgccc	tcgggcagag	cctgggcccc	cagaggcctt	ctgtaggagt	1680
gagcctgaga	taccagagcc	ctccctccag	gaacagcttg	aagtaccaga	gccctacctt	1740
ccagcagaac	ccaggccctt	agagtcctgc	tgtaggagtg	agcctgagat	accggagtcc	1800
tctcgccagg	aacagcttga	ggtacctgag	ccctgccctc	cagcagaacc	caggccctca	1860
gagtccctact	gtaggattga	gcctgagata	ccggagtctc	ctccgccagg	aacagcttga	1920
ggtacctgag	ccctgccctc	cagcagaacc	cggtccctct	cagcccagca	cccaggggca	1980
gtctggaccc	ccaggccctt	gccctagggg	agagctgggg	gcacagagc	cctgcacctt	2040
ggaacataga	agctctagct	ccagtctacc	accctgctgc	agtcagtggg	ctccagcaac	2100
caccagcctg	atcttctctt	cccaacaccc	gctttgtgcc	agccccctta	tctgtcact	2160
ccagtctttg	agacccccag	caggccaggc	aggcctcagc	aatctggccc	ctcgaacctt	2220
agccctgagg	gagcgcctca	aatcgtgttt	aaccgccatc	cactgtcttc	acgaggctcg	2280
ctgggacgat	gagtgtgcct	tttacaccag	cagagccctt	ccctcaggcc	ccacccgggt	2340
ctgcaccaac	cctgtggcta	cattactcga	atggcaggat	gcctgtgtgt	tcattccagt	2400
tggttctgct	gccccccagg	gctctccatg	atgagacaac	cactcctgcc	ctgccgtact	2460
tcttcttttt	agcccttatt	tattgtcggg	ctgcccattg	gactggggagc	cgccaccttt	2520
tgtcctcaat	aaagtttcta	aagtaaaaaa	aaaa			2554

<210> 232

<211> 616

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 261567.5

<400> 232

agtctccggc	gagttgttgc	ctgggctgga	cgtgggtttg	tctgctgcgc	ccgctcttcg	60
cgctctcggt	tcattttctg	cagcgcgcca	gccaggatgg	cccacaagca	gatctactac	120
tcggacaagt	acttcgacga	acactacgag	taccggcatg	ttatgttacc	cagagaactt	180
tccaaacaag	tacctaaaac	tcattctgatg	tctgaagagg	agtggaggag	acttgggtgc	240
caacagagtc	taggctgggt	tcattacatg	attcatgagc	cagaaccaca	tattctcttc	300
tttagacgac	ctcttccaaa	agatcaacaa	aaatgaagtt	tatctgggga	tcgtcaaatc	360
tttttcaaat	ttaatgtata	tgtgtatata	aggtagtatt	cagtgaatac	ttgagaaatg	420
tacaaatctt	tcattccatac	ctgtgcatga	gctgtattct	tcacagcaac	agagctcagt	480
taaatgcaac	tgcaagtagg	ttactgtaag	atgtttaaga	taaaagttct	tccagtcagt	540
ttttctctta	agtgcctgtt	tgagtttact	gaaacagttt	acttttggtc	aataaagttt	600
gtatgttgca	tttaaa					616

<210> 233

<211> 2122

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 232713.2

<400> 233

cgggggcggg	gcacctctgt	gcagggttcc	cagtcaccgc	gacgctcctc	gggaagccat	60
agggcgccctc	ccagcccgctc	tcccgcctcc	agtttagaac	ctaattccca	attcccggac	120
cgggcccgagc	cctgggctct	tactgtccgc	ttttgctggg	acctgttcca	caaatgggcg	180
tcttctgcct	tgggcectgg	gggttgggccc	ggaagctgcg	gacgcctggg	aaggggcccgc	240
tgacgctctt	gagccgcctc	tgccggggacc	acttgcaggc	catcccagcc	aagaaggccc	300
cggctgggca	ggaggagcct	gggacgcccgc	cctcctcgcc	gctgagtgcc	gagcagttgg	360
accggtacca	gaggaacaag	gccgcggccc	tgctcagact	cgcggcccgc	aacgtgcccg	420
tgggcttttg	agagagctgg	aagaagcacc	tcagcgggga	gttcgggaaa	ccgtatttta	480
tcagaccta	gggatttgtt	gcagaagaaa	gaaagcatta	cactgtttat	ccaccccac	540
accaagtctt	gacctggacc	cagatgtgtg	acataaaaaga	tgtgaagggt	gtcatcctgg	600
gacaggatcc	atatcatgga	cctaatacaag	ctcacgggct	ctgctttagt	gttcaaaggc	660
ctgttccgcc	tccgcccagt	ttggagaaca	tttataaaga	gttgtctaca	gacatagagg	720
attttgtcca	tcttgccctg	ggagatttat	ctgggtgggc	caagcaagggt	gttctccttc	780
tcaacgtctg	cctcacgggt	cgtgcccatc	aagccaactc	tcataaggag	cgaggctggg	840
agcagttcac	tgatgcagtt	gtgtcctggc	taaatcagaa	ctcgaatggc	cttgttttct	900
tgctctgggg	ctcttatgct	cagaagaagg	gcagtgccat	tgataggaag	cggcaccatg	960
tactacagac	ggctcatccc	tcccctttgt	cagtgtatag	agggttcttt	ggatgtagac	1020
acttttcaaa	gaccaatgag	ctgctgcaga	agtctggcaa	gaagcccatt	gactggaagg	1080
agetgtgatc	atcagctgag	gggtggcctt	tgagaagctg	ctgttaacgt	atttgccagt	1140
tacgaagtto	cactgaaaat	tttcttatta	attcttaagt	actctgcata	agggggaaaa	1200
gcttccagaa	agcagccatg	aaccaggctg	tccaggaatg	gcagctgtat	ccaaccacaa	1260
acaacaaaag	ctaccctttg	accaaatgtc	tttctctgca	acatggcttc	ggcctaaaa	1320
atgcagaaga	cagatgaggt	caaatactca	gttggctctc	tttatctccc	ttgcctttat	1380
ggtgaaacag	gggagatgtg	cacctttcag	gcacagccct	agtttggcgc	ctgctgctcc	1440
ttggttttgc	ctggtttagac	tttcagtgac	agatgttggg	gtgtttttgc	ttagaaagggt	1500
ccctctgtct	cagccttgca	gggcaggcat	gccagtcctc	gccagttcca	ctgccccttc	1560
gatctttgaa	ggagtcctca	ggcccctcgc	agcataagga	tgttttgcaa	ctttccagaa	1620
tctggcccag	aaattagggc	tcaatttcct	gattgtagta	gaggttaaga	ttgctgtgag	1680
ctttatcaga	taagagaccg	agagaagtaa	gctgggtcct	gttattcctt	gggtgttgggt	1740
ggaataagca	gtggaatttg	aacaaggaag	aggagaaaag	ggaattttgt	ctttatgggg	1800
tggggtgatt	ttctcctagg	gttatgtcca	gttgggggtt	ttaaggcagc	acagactgcc	1860
aagtactgtt	ttttttaacc	gactgaaatc	actttgggat	attttttcct	gcaacactgg	1920
aaagttttag	ttttttaaga	agtactcatg	cagatatata	tatatatatt	tttcccagtc	1980
cttttttta	gagacggtct	ttattgggtc	tgacacctca	tccttgatct	tgtagcaaat	2040
gctgtttttg	ctgttagtcg	ggtagagtt	ggctctacgc	gaggtttggt	aataaaagtt	2100
tgtaaaagt	taaaaaaaaa	aa				2122

<210> 234

<211> 2673

<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 214335.13

<400> 234

```
cgaggagcgc ctctgtgcgga ggcggcccgga ggccctagtga cagggcgcgcg gcgggacccc 60
ggaagcccac ctgtcagaga taccgggtcag ccggggcgggc gccgcggggg tctgggggtgg 120
acggcggcag cctgcacgtt gcgcggggac cccgggggctg tgcccagaaa aatcattttt 180
cttctctggg aaggtgaaca tttgtagcat tgatttcccg gatctggtaa catggcaaaa 240
gatgccggtc taattgaagc caacggagaa ctcaagggtc tcatagacca gaaccttagt 300
ccggggaag gcgtgggtgc cctcgtggcc gtaccacctt ccaccgtcaa cccgctcggg 360
aagcagctct tgccaaaaac ctttggacag tccaatgtca acattgcccc gcaagtggta 420
attggtacgc ctccagagac ggcagcgtca aacaccttgg tggtaggaag cccacacacc 480
cccagcagc actttgcctc tcagaaccag ccttccgact cctcaccttg gtctgccggg 540
aagcgcaaca ggaaaggaga gaagaatggc aaggggcctac ggcatttctc catgaagggtc 600
tgcgagaagg tgcagaggaa agggaccact tctacaacg aagtggccag acgagctggt 660
tgcgaggttc agtgcctggc acaaccacat cttaccaaac gagtcagctt atgaccagaa 720
aaacataaga cggcgctctc acgatgcctt aaacgtgcta atggccatga acatcatctc 780
caaggagaag aaggagatca agtggattgg tctgccacc aactcggctc aggaatgtca 840
gaacttagag gtggaaagac agaggagact tgaaagaata aaacagaaac agtctcaact 900
tcaagaactt attctacagc aaattgcctt caagaacctg gtgcagagaa accggcatgc 960
ggagcagcag gccagcgctc caccgccacc caactcagtc atccacctgc ccttcacatc 1020
cgtcaacacc agcaagaga cgggtcatcga ctgcagcatc tccaatgaca aatttgagta 1080
tctgtttaat tttgacaaca catttgaaat ccacgatgac atagaagtgc tgaagcggat 1140
gggcatggct tgcgggctgg agtcggggag ctgctctgcc gaagacctta aaatggccag 1200
aagtctggtc cccaaggctc tggagccata cgtgcagaaa atggctcagg gaactgttgg 1260
aggcgtgttc atcacgacgg caggttccac gtctaacggc acaaggttct ctgccagtga 1320
cctgaccaac ggtgcagatg ggatgctggc cacaagctcc aatgggtctc agtacagcgg 1380
ctccaggggt gagactccgg tgcctacgt cggggaggac gacgaggagg acgatgactt 1440
caacgagaat gacgaggacg actgacgtcc tccccacttc agattcggct tcaggaaaac 1500
gttttagcgaa aagaaacttt ttttttaatg tgggttttct gtttctcttt ggccactctc 1560
caagaagata ttggttaagt attgaattta gatatgcacc tctgataagc aaggattggt 1620
tcccgtagga ttaggacgtg ctgtggatgt gtgttttgat accagtgtgc tgaatgcagag 1680
cgttttattt cttgttagga ttttgtgttt tcatttgcta tttttcttta agtgcagagt 1740
tctattttgc cctgaaaag tttttgtcga gtttgcgtga gaaattgtat ttcaaccaca 1800
tccatgaaaa taaaacacct cctgttgttg atggtgagcc cctgatgccg cttatttgcc 1860
gtgagtttgg acggcacccc tgctggcgga tagcaagact ctgtggagtt tgttcagttg 1920
tacggtgtcc aagcaaacag cagaatgcaa ctttctaaac agccccaagc aaacagcaga 1980
attcaacttt ttaacaata aacaccatca accttattga ctttattgtc ccttaaatta 2040
tattgactgt tgtgattcca tcaagtttgt acactctttt ctctccctgt tttgcagcaa 2100
caaattgcga agtgcctttg tttgtttgtt ttogtttggg taaagcttat tgccatgctg 2160
gtgcggctat ggagactgtc tgggaaggctt ggaatgggtt attgcttatg gtaaaatttg 2220
cctgatttct tacaggcagc gtttggaaac cttttattat atagttgttt acatacttat 2280
aagtctatca tttaaagaca tgtactgaaa caaatgtatt tgtttcataa gcactctcct 2340
gtaatctatt ataaaattga aattaaatat agagaatgtt ttaacaattt ttttaactca 2400
aatttgtcaa tcatttttaa tagttctttt tttataaaaa gaaaaaggaa ttttaaggaca 2460
ggcagtagtc tcttttaaaa tttattcaca aaaccatta actgcacagt tgctattagc 2520
tgctgttctc aaaacgatat tctttttatt taaacttttc tgtaattatt 2580
tatggtatat aaagagactt taattgtttg acttgtttaa cttggcactg ttagttttta 2640
ttaataaaac gcgcattggc attttaaaaa aaa 2673
```

<210> 235
<211> 4409
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 331022.33

<400> 235

```
tttcgactcg cgctccggct gctgtcactt ggctctcttg ctggagcttg aggacgcaag 60
gagggtttgt cactggcaga ctogagactg taggcactgc catggccctt gtgctcagta 120
aggactcggc ggacactcag agtatccttg ctttaaattc tcgaacacaa actcatgcaa 180
ctctgtgttc cacttcggcc aagaaattag acaagaaaca ttggaaaaga aatcctgata 240
agaactgctt taattgtgag aagctggaga ataattttga tgacatcaag cacacgactc 300
ttggtgagcg aggagctctc cgagaagcaa tgagatgcct gaaatgtgca gatgccccgt 360
```

gtcagaagag	ctgtccaact	aatcttgata	ttaaatacatt	catcacaagt	attgcaaaca	420
agaactatta	tggagctgct	aagatgatat	tttctgacaa	cccacttggg	ctgacttggtg	480
gaatggtag	tccaacctct	gatctatgtg	taggtggatg	caatztatat	gccactgaag	540
agggaccat	taatattggg	ggattgcagc	aatttgcctac	tgaggtattc	aaagcaatga	600
gtatcccaca	gacagagaa	ccttcgctgc	ctccccaga	aaaaatgtct	gaagcctatt	660
ctgcaaat	tgctctttt	gggtgctggg	ctgcaagtat	aagttgtgct	tccttttggg	720
ctcgattggg	gtactctgac	atcactatat	ttgaaaaaca	agaatatggt	gggtggttaa	780
gtactcttga	aattcctcag	ttccggctgc	cgtatgatgt	agtgaatttt	gagattgagc	840
taatgaagga	ccttgggtga	aagataattt	gcggtaaaag	cctttcagtg	aatgaaatga	900
ctcttagcac	tttgaaagaa	aaaggctaca	aagctgcttt	cattggaata	ggtttgccag	960
aaccaataa	agatgccatc	ttccaaggcc	tgacgcagga	ccaggggttt	tatacatcca	1020
aagacttttt	gccacttgta	gccaaaggca	gtaaagcagg	aatgtgcgcc	tgctactctc	1080
cattgccatc	gatacgggga	gtcgtgattg	tacttggagc	tgagagacact	gcctttgact	1140
gtgcaaat	tgctctacgt	tgtggagctc	gcgctgtgtt	catcgtcttc	agaaaaggct	1200
ttgttaatat	aagagctgtc	cctgaggaga	tggaacttgc	taaggaagaa	aagtgtgaat	1260
ttctgccatt	cctgtcccca	cggaagggtta	tagtaaaagg	tgaggagaatt	gttgctatgc	1320
agtttgttcg	gacagagcaa	gatgaaactg	gaaaatggaa	tgaagatgaa	gatcagatgg	1380
ttcatctgaa	agccgatgtg	gtcatcagtg	cccttgggtc	agttctgagt	gatcctaaag	1440
taaaagaagc	ccttgagccct	ataaaattta	acagatgggg	ttcccagaa	gtagatccag	1500
aaactatgca	aactagtga	gcatgggtat	ttgcagggtg	tgatgtcgtt	ggtttggcta	1560
acactacagt	ggaatcgggtg	aatgatggaa	agcaagcttc	ttgggtacatt	cacaaatacg	1620
tacagtacac	atatgagctg	tccgtttctg	ccaagcctga	actacccttc	ttttactctc	1680
ctattgtact	gggtggacatt	agtgtagaaa	tgcccggtat	gaagtttata	aatccttttg	1740
gtcttgctag	cgcaactcca	gccaccagca	catcaatgat	tcgaagagct	tttgaagctg	1800
gatgggggtt	tgccctcacc	aaaactttct	ctcttgataa	ggacatttgtg	acaaatgttt	1860
ccccagaa	catccgggga	accacctctg	gccccatgta	tgcccttgga	caaagctcct	1920
ttctgaatat	tgagctcatc	agtggaaaaa	cggctgcata	ttgggtgcaa	agtgctcactg	1980
aactaaaggc	tgactttcca	gacaacattg	tgattgctag	cattatgtgc	agttacaata	2040
aaaatgactg	gacggaactt	gccaaagaat	ctgaggattc	tgagagcagat	gccctggagt	2100
taaatattat	atgtccacat	ggcatggggg	aaagaggaat	gggcctggcc	tgtgggcagg	2160
atccagagct	ggctgggaac	atctgccgct	gggttaggca	agctgttcag	attccttttt	2220
ttgccaagct	gaccccaaat	gtcactgata	ttgtgagcat	cgcaagagct	gcaaagggaag	2280
gtggtgccaa	tgccgttaca	gccaccaaca	ctgtctcagg	tctgatggga	ttaaaatctg	2340
atggcacacc	ttggccagca	gtggggattg	caaagcgaac	tacatatgga	ggagtgtctg	2400
ggacagcaat	cagacctatt	gctttgagag	ctgtgacctc	cattgctcgt	gctctgctctg	2460
gatttcccat	tttggctact	gggtggaattg	actctgctga	aagtggtctt	cagtttctcc	2520
atagtgggtg	ttccgtcttc	caggtatgca	gtgccattca	gaatcaggat	ttcactgtga	2580
tcgaagacta	ctgcactggc	ctcaaagccc	tgcttttatct	gaaaagcatt	gaagaactac	2640
aagactggga	tgacagaggt	ccagctactg	tgagtcacca	gaaagggaaa	ccagttccac	2700
gtatctgtga	actcatggac	aagaaactgc	caagttttgg	accttatctg	gaacagcgca	2760
agaaaatcat	agcagaaaac	aagatttagac	tgaaagaaca	aaatgtagct	ttttcaccac	2820
ttaagagaaa	ctgttttatc	occcaaaaggc	ctattcctac	catcaaggat	gtaataggaa	2880
agcactgca	gtaccttgga	acattttggtg	aattagagca	cgtagagcaa	gttggtggcta	2940
tgattgatga	agaaaatgtg	atcaactgtg	gtaaaatgcta	catgacctgt	aatgatctctg	3000
gctaccaggc	tatacagttt	gatccagaaa	cccacctgcc	caccataacc	gacacttgta	3060
caggtctgtac	tctgtgtctc	agtgtttgccc	ctattgtcga	ctgcatcaaa	atggtttcca	3120
ggacaacacc	ttatgaacca	aagagaggcg	tacctttatc	tgtgaatccg	gtgtgttaag	3180
gtgatttgtg	aaacagtttg	tgtgaacttt	catgtcacct	acatatgctg	atcttttaaa	3240
atcatgatcc	ttgtgttcag	ctctttccaa	attaaaacaa	atatacattt	tctaaataaa	3300
aatatgtaat	ttcaaaatag	atttgtaagt	gtaaaaaatg	tctcatgtca	atgaccattc	3360
aattagtggg	cataaaatag	aataattctt	ttctgaggat	agtagttaaa	taactgtgtg	3420
gcagttaatt	ggatgttcac	tgccagttgt	cttatgtgaa	aaattaactt	ttttgtggca	3480
attagtgtga	cagttttcaa	attgccctat	gctgtgctcc	atatttgatt	tctaattgta	3540
agtgaatta	agcattttga	aacaaagtac	tctttaacat	acaagaaaat	gtatccaagg	3600
aaacatttta	tcattaaaaa	ttacctttaa	ttttaatgct	gtttctaaga	aaatgtagtt	3660
agctccataa	agtacaaaatg	aagaaagtca	aaaaattatt	tgctatggca	ggataagaaa	3720
gcctaaaaat	gagttttag	aactttatta	agtaaaatcc	ccttcgctga	aattgcttat	3780
ttttgggtgt	ggatagagga	tagggagaat	atttactaac	taaataccat	tcactactca	3840
tgctgtgagat	gggtgtacaa	actcatcctc	ttttaatggc	atttctcttt	aaactatggt	3900
cctaacaaaa	tgagatgata	ggatagatcc	tggttaccac	tcttttactg	tgacataacg	3960
ggctctgact	ggttttaata	gtcaccttca	tgattatagc	aactaatggt	tgaacaaagc	4020
tcaaagtatg	caatgcttca	ttattcaaga	atgaaaaata	taatgttgat	aatataatatt	4080
aagtgtgcca	aatcagtttg	actactctct	gttttagtgt	ttatgtttta	aagaaatata	4140
ttttttgtta	ttattagata	atatttttgt	atttctctat	tttcataatc	agtaaatagt	4200
gtcatataaa	ctcatttatc	tcctcttcat	ggcatcttca	atatgaatct	ataagtagta	4260
aatcagaaaag	taacaattcta	tggtttattt	ctatgacaaa	ttcaagagct	agaaaaataa	4320
aatgtttcat	tatgcacttt	tagaaatgca	tatttgccac	aaaacctgta	ttactgaata	4380

atatcaaata aaatatcata aagcatttt

4409

<210> 236

<211> 4130

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 332259.3

<220>

<221> unsure

<222> 3511-3801, 4094, 4112, 4124

<223> a, t, c, g, or other

<400> 236

cggttagcgc	gcctgggagg	gagaaagaag	tcggggggcgc	tggcgcgcag	cccgcggggc	60
ctgaagggat	gttcgaggac	aagccccacg	ctgagggggc	ggcgggtggtc	gccgcagccg	120
gggaggcgct	acaggccctg	tgccaggagc	tgaacctgga	cgaggggagc	gcggccgaag	180
ccctggacga	ctttactgcc	atccgaggca	actacagcct	agaggggagaa	gttacacact	240
ggttggcatg	ttcattatat	gttgcacgcc	gcaaaagcat	tattcccacg	gttggaagg	300
gtatcatgga	aggcaactgt	gtttcacctta	ccagaatact	acgttcagct	aaattaagtt	360
taatacaatt	ttttagtaaa	atgaagaaat	ggatggacat	gtcaaatact	ccacaagaat	420
ttcgtgaacg	tatagaaagg	ctagagagaa	attttgaggt	gtctactgta	atattcaaaa	480
aatatgagcc	aatttttttt	gatataattc	aaaatccata	tgaagaacca	ccaaagttac	540
cacgaagccg	gaagcagagg	aggattcctt	gcagtgttaa	ggatctgttt	aatttctgtt	600
ggacactttt	tgtttatact	aagggttaatt	ttcggatgat	tggggatgac	ttagtaaaact	660
cttatcattt	acttctatgc	tgcttggatc	tgatttttgc	caatgcgatt	atgtgcccaa	720
atagacaaga	cttgctaaat	ccatcattta	aagggtttacc	atctgatttt	catactgctg	780
actttacggc	ttctgaagag	ccaccctgca	tcatttgctgt	actgtgtgaa	ctgcatgatg	840
gactttctgt	agaagcaaaa	ggaataaagg	agcactactt	taagccatat	atttcaaaac	900
tctttgacag	gaagatatta	aaaggagaat	gcctcctgga	cctttcaagt	tttactgata	960
atagcaaagc	agtgaataag	gagtatgaag	agtatgttct	aactgttggt	gattttgatg	1020
agaggatctt	tttgggagca	gacgcagaag	aggaaattgg	aacacctcga	aagttcactc	1080
gtgacacccc	attagggaaa	ctgacagcac	aggctaatgt	ggagtataac	cttcaacagc	1140
actttgaaaa	aaaaaggtca	tttgcacctt	ctacccctct	gaccggacgg	agatatattac	1200
gagaaaaaga	agcagtcatt	actcctgttg	catcagccac	ccaaagtgtg	agccgggttac	1260
agagtattgt	ggctggctctg	aaaaatgcac	caagtgacca	acttataaat	atttttgaat	1320
ctgtgtgtcg	taatcctgtt	gaaaacatta	tgaaaatact	aaaaggaata	ggagagactt	1380
tctgtcaaca	ctatactcaa	tcaacagatg	aacagccagg	atctcacata	gactttgctg	1440
taaacagact	aaagctggca	gaaattttgt	attataaaat	actagagact	gtaatgggtc	1500
aggaaacacg	aagacttcct	ggaatggaca	tgctcagttct	tttagagcaa	gatataattc	1560
atcgttctct	gatggcttgt	tgttttgaaa	ttgtgtctct	tgcttatagc	tcacctogta	1620
cttttctctg	gattattgaa	gttctcaact	tgcaaccatt	ttacttttat	aaggttattg	1680
aggtggtgat	ccgctcagaa	gaggggctct	caagggacat	ggtgaaacac	ctaaacagca	1740
ttgaagaaca	gatttttgag	agtttagcat	ggagtcacga	ttctgcactg	tgggaggctc	1800
tccaggtttc	tgcaaacaaa	gttctctac	gtgaagaagt	tatatccca	aataactttg	1860
aaacaggaaa	tggaggaaat	gtgcaggggc	atcttccctc	gatgccaatg	tctcctctaa	1920
tgcaaccaag	agtcaaggaa	gttcgaactg	acagtgagg	tcttogaaga	gatatgcaac	1980
cattgtctcc	aatttctgtc	catgaacgct	acagttctcc	taccgcaggg	agtgtcaaga	2040
gaagactctt	tggagaggac	ccccaaagg	aaatgcttat	ggacaagatc	ataacagaag	2100
gaacaaaatt	gaaaatcgct	ccttcttcaa	gcattactgc	tgaaaatgta	tcaattttac	2160
ctggtcaaac	tcttctaaca	atggccacag	ccccagtaac	aggaacaaca	ggacataaag	2220
ttacaattcc	attacatggt	gtcgcaaatg	atgctggaga	gatcacactg	atacctcttt	2280
ccatgaatac	aaatcaggag	tccaaagtca	agagtctctg	atcacttact	gctcattcat	2340
taatttggtg	ttctccaaaa	cagaccaatc	tgactaaagc	acaagaggta	cattcaactg	2400
gaataaacag	gccaaagaga	actgggtcct	tagcactatt	ttacagaaag	gtctatcatt	2460
tggcaagtgt	acgcttacgt	gatctatgtc	taaaactgga	tgtttcaaat	gagttacgaa	2520
ggaagatatg	gacgtgtttt	gaattcactt	tagttcactg	tcttgatcta	atgaaagaca	2580
ggcatttgga	tcagctctct	ctttgtgcct	tttatatcat	ggcaaaggta	acaaaagaag	2640
aaagaacttt	tcaagaaatt	atgaaaagtt	ataggaatca	gccccaaagt	aatagtcagc	2700
tatatagaag	tgttctgctg	aaaagtattc	caagagaagt	tgtggcatat	aataaaaaata	2760
taaatgatga	ctttgaaatg	atagattgtg	acttagaaga	tgctacaaaa	acacctgact	2820
gttccagtag	accagtgaag	gaggaaagag	gtgatcttat	aaaattttac	aatacaatat	2880
atgtaggaag	agtgaagtca	tttgactgca	aatacgaact	ggcgaatcag	gaccatatga	2940
tggatgctcc	accactctct	cctttttccac	atattaaaca	acagccaggc	tcaccacgac	3000

gcatttccca	gcagcactcc	atztatattt	ccccgcacaa	gaatgggtca	ggccttacac	3060
caagaagcgc	tctgctgtac	aagttcaatg	gcagcccttc	taagagtttg	aaagatatca	3120
acaacatgat	aaggcaaggt	gagcagagaa	ccaagaagcg	agtaatagcc	atcgatagtg	3180
atgcagaatc	ccttgccaaa	cgcgtctgtc	aagaaaatga	tgacgtttta	ctgaaacgac	3240
tacaggatgt	tgtcagtga	agagcaaatc	attaatgttg	ttcttgtttc	tatgataaaa	3300
gcactttcag	attgttctgc	agaaagtgg	agctctgtcc	ttcaaaccct	ttagccctat	3360
agatgataaa	tatcactggg	ttataagaaa	aaattgcaca	aaaattatgt	gctttttaaa	3420
atatttatcc	aaaatgtagt	tgacagagat	gtattttgag	ttggattgga	aagggaatatt	3480
ttaagtgcct	tttaaaaata	ctaatagtcc	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	3540
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	3600
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	3660
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	3720
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	3780
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	3840
ttgagttttc	aagatgaaat	aaggagaaac	cccataactt	tttagctctc	ttttaaaaaa	3900
aaatgtctcc	ttctgtgttc	tgtaatatga	ggataaataa	tctacttttg	atagcatgct	3960
ttgagatatt	tgtattctta	atttaataat	gaagggaagg	gttggttccc	atagtacctg	4020
gccaggggtg	tatatccat	cctgtctctg	gccactgtg	gtaattccac	atccaggtag	4080
caccgcatt	cagngtgtgc	tcacccttc	tngtgcctt	tctntccttg		4130

<210> 237

<211> 1425

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 253570.8

<400> 237

ctgctgccgg	gcagaagaaa	agcagggcag	gctggctccc	aggcctcagg	gtggggatgg	60
cagtgggaat	gaagcacctg	taactgggcc	cttctgccc	taatgttcag	ggggccctac	120
cctcgtgag	cttgtcttat	taagaaccct	caaaaggcct	aagttaacca	gcagggtccaa	180
aggteccaa	gaacaaggtc	agagacgcca	gggaaaagag	gtgagctgtg	caggactagc	240
actgggaaaa	ctggcaatct	gtgtgtgcaa	gtgtgtgcct	gtgcaagtgc	tccaactgct	300
gctttgggtg	aacttcaggc	cttgccctct	ccctatcacc	atcgtctcca	tcaacaccct	360
ctttcttttc	cagcctctcc	tggtgcctta	ggaatcagac	gccaataaac	cacagagccc	420
agcatgtcca	ccttcgcttt	tattgagtag	ttagtgttct	caagctggct	cacacccatg	480
cggtcagctg	gggcctaggg	tggctctttg	caaagctgag	gggcaagcta	aggaagccag	540
gcaggctcagg	ggccctttcg	gecttctcaa	gcctccacct	gagttctcgt	caatgccagt	600
ctccctggta	tgattgggga	cattatcaga	gaaacatcta	atagcgcaca	tctgggcacc	660
caactctctg	ttcagttgca	tccatcctcc	caccccaaat	tcaactcctg	acccaatata	720
aaagactttt	ttaaccagga	tttcttcttg	caggaaagct	gacttggaaa	cacggggagg	780
tggcagggag	ggccaaaaag	gactctggca	agcagatcca	cttgtctggg	tccctgcagt	840
gaagaaccca	agatccaggt	acctcagcct	ggaagaaacc	gtgcaactga	ggtcttccct	900
tctatcaaaa	ctaaaagcaa	ggaacagaag	tcaattgaaa	ccccagggtc	tcctaccacc	960
cttctggcag	tctctggata	atgatctaag	gaaataagct	tacatttata	attagaggat	1020
aatcttgaga	atttatacta	tttacacgga	ccacctgca	aagatcaggg	aaggctggat	1080
ttcttccctc	ttgatagtct	gaactggaag	caaaggagaa	aaccttcttc	caaacaggag	1140
tttctcctct	ttccctggtc	ctgcagaaga	aagaggagct	atcccctcct	cagctagcag	1200
cacctgaaag	ggaaacagag	ataagtgtaa	ccaacggtca	ccagacagga	cgcacaaaaa	1260
tatcacatac	gggttctgat	cctctttgtg	tcgttttgaa	gtctttaaata	ctattaaata	1320
tgagaatacg	atgtatgttg	aagttggtag	ttcaattctg	gctgtaaaag	atgcgggtat	1380
gtagtatgta	gtggcataat	tataatagca	ttcatccgag	aggag		1425

<210> 238

<211> 1825

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 995529.5

<400> 238

ggagcggcgg	ccgcggtaat	aataagccgg	gatctaccat	acccattgac	taactatgga	60
agattatacc	aaaatagaga	aaattggaga	aggtacctat	ggagtttgtg	ataagggtag	120

```

acacaaaact acaggtcaag tggtagccat gaaaaaaatc agactagaaa gtgaagagga 180
aggggttcct agtactgcaa ttctctatta aaggaaacttc gtcattccaa 240
tatagtcagt cttcaggatg tgcttatgca ggattccagg ttatatctca tctttgagtt 300
tctttccatg gatctgaaga aatacttgga ttctatccct cctgggtcagt acatggattc 360
ttcacttggt aagagtttatt tataccaaat cctacagggg attgtgtttt gtcactctag 420
aagagttctt cacagagact taaaacctca aaatctcttg attgatgaca aaggaacaat 480
taaaactggc gattttggcc ttgccagagc ttttggaata cctatcagag tatatacaca 540
tgaggtagta acactctggg acagatctcc agaagtattg ctggggtcag ctcggttactc 600
aactccagtt gacatttgga gtataggcac catatttgct gaactagcaa ctaagaaacc 660
acttttccat ggggattcag aaattgatca actcttcagg attttcagag ctttgggcac 720
tcccaataat gaagtgtggc cagaagtggg atctttacag gactataaga atacatttcc 780
caaatggaaa ccaggaagcc tagcatccca tgtcaaaaac ttggatgaaa atggcctggg 840
atttgctctc gaaaatgtta atctatgatc cagccaaacg aatttctggc aaaatggcac 900
tgaattccat atattttaat gatttggaca atcagattaa gaagatgtag ctttctgaca 960
aaaagtttcc atatgttatg tcaacagata gttgtgtttt tattgttaac tctgtctat 1020
ttttgtctta tatatatttc tttgttatca aacttcagct gtactctgtc ttctaatttc 1080
aaaaatataa cttaaaaatg taaatattct atatgaattt aaatataatt ctgtaaatgt 1140
gtgtaggctc actgttaaca actataataa aactataata ttgatgtcag 1200
gaatcaggaa aaaatttgag ttggcttaaa tcatctcagt ccttatggca gttttatatt 1260
cctgtagttg gaactactaa aatttaggaa aatgctaagt tcaagtttcg taatgctttg 1320
aagtattttt atgctctgaa tgtttaaatg ttctcatcag tttcttgcca tgtgtttaac 1380
tatacaacct ggctaaagat gaataatttt ctactgggat ttttaatttt gacctaaatg 1440
ttaaagcatt cggaatgaga aaactatata gatttgagaa atgatgctaa atttatagga 1500
gttttcagta acttaaaaag ctaacatgag agcatgccaa aatttgctaa gtcttataaa 1560
gatcaagggc tgtccgcaac aggggaagaac agttttgaaa atttatgaac tatcttattt 1620
ttaggtaggg tttgaaagct tttgtcttaa gtgaattctt atgccttggg cagagtaata 1680
actgaaggag gtgcttatct tggcttctga ctctgagttt aaaactacac attttgacat 1740
agtgtttatt agcagccatc taaaaaggct ctaatgtata ttttaactaa attactagct 1800
ttgggaataa actgtttaac aaata 1825

```

<210> 239

<211> 3285

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 474435.16

<220>

<221> unsure

<222> 816-1128

<223> a, t, c, g, or other

<400> 239

```

tggaagcggg ctgcctagcc ctgcgcgggg caaggcggcg accgaggcgc gtgggtctgg 60
gaaggcgcgc ggatttggcc cctcttctca catcagcggg tccaggccca accgacagac 120
tatgggggct ccggcaacca ggcgtgcgt ggagtggctg ctgggcctct acttctcag 180
ccacatcccc atcacctgt tcatggacct gcaggcggtg ctgccgcgcg agctctaccc 240
agtcgagttt agaaacctgc tgaagtggta tgctaaggag ttcaaagacc cactgctaca 300
ggagccccc ccttggttta agtcctttct gttttgcgag cttgtgtttc agctgccttt 360
ctttccatt gcaacgtatg ccttcctcaa aggaagctgc aagtggatte gaactcctgc 420
aatcatctac tctgttcaca ccatgacaac cttaatccg atactctcca catttctgtt 480
tgaggatttc tccaaagcca gtggtttcaa gggacaaaaga cctgagactt tgcatgaacg 540
gttaaccctt gtgtctgtct atgcccccta ctactcatc ccattcatac ttttaatttt 600
catgttgccg agcccctact acaagtatga agagaaaaga aaaaaaaat gaaggaaaca 660
accattggcc cagggtagag atgcctacag ggtggttgct tgttgatac aatacaagga 720
acactgctca gaaccacgt cttcagcagc atttgaaaca ctggcagcaa tgcacaagag 780
caagatgggt tcaggaacca tgtcaaaccc tcaccnnnnn nnnnnnnnnn nnnnnnnnnn 840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 900
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 960
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1020
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1080
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1140
ttctaagggc actgggatg acagaccgat cggcttggag gtgggcaaag ggggtgtggg 1200
taggttataa ggaagtggta ccaataaact gtgtgcctga gttccaccgc aagattacta 1260
aaagcaggac cagaccagaa actgctaaag aacatggcct gtttgacatg ttcatgagtc 1320

```

```

acctgaccca cagcatatat gcttatgact aaaccctcca ctctgattc tcaagagtgt 1380
atcacctgtc agcaaaatga atagtgggat attttgggcc attttaaagtg tgaatttttg 1440
cctctttaat gtttaattcaa aactatatca atgttttctt gttccacact ctaaccaag 1500
gaaaaaagag aaaacatact atgcaaagga agtttaaact taagttttcc ttaagggtca 1560
gcccaacaat gactttcagt caaatggatt aaactggaaa atgtttttgt ttctgttgta 1620
aacagatcat cctaggcgaa agtttttttt gtttgtttgc ttttaaatta gtttatttct 1680
aaatcttagt cttccacatt tctagaggcc acctgacaca agtccctgta tctgaagtct 1740
agcatctcaa ggctgatctg gaagtgtgct agtatgctcc ctagtggata acttaatctt 1800
ttaatacagt tccgtcattc ccactctgtt ttcagaagag aaggtggcta cagccaggca 1860
taacatatcc actgtgtgca tagagggtct cttcacgttg atgcttgga ttccatcagc 1920
tttctctaag tctttgtcca agttcaacct taaaatgatg ttagacaaca ggtcccagtc 1980
agttccctct attttcaccc attttgctca caagccatat tggcccgatt agtggtagct 2040
tctgactcac gtgtgtgatc caaataaagg tagctgtcga ccactgcctg gtttgttttg 2100
tggactaggg gataggaat ccagggttct ctcagttaga gttaaacata tttcaagagc 2160
aacaggaaaa aaggtacatc aagccatttg aaaacaaaaa tttattgctt ctcttccaa 2220
agctttgtga atttacaaaa aaaaggatga aagtttacaa actgcttagt tccaactaag 2280
cataagaggt gagaacgtac actgcagggc caccagcagc agctgtgcac tgatgttaa 2340
actggctccc ccagacttgt agtgcgtctc tcagggggct gcattcctta cagccacct 2400
cttgtgacat aggtcattgg tcaagccgct ggaatgctac agagggtttt ttggttttga 2460
gaggcttttt tttgttttgc cttcctacta taaaagcgaa attttcagtt catttctgaa 2520
aaataaattg gtcaataaat tcattttgtt tttctgctat tagggcttga agttgctgct 2580
caacccgata cctttctagc tgcattttct ttctgctat tgagcaagtt ccgagcaccg atggccttca 2640
gttgagcttc tctctgcttt gctatagatt tttgcaagtt gatcaacaag ctcaattaaa ccaccaacta 2700
tcttttcatt ttctgcttct tttgcaagtt agtcttttga ctcttcttcc agctctatgg 2760
ttttctgaaa ctggccaatt ttgtccacaa tccacttgtt cagttcatca aagtgtagcc 2820
tctgtcgggt aacctctggg tccaacacc ctgttttcca tccagggttc ctagaggagt 2880
ctgcttcacc caggatgttc ttggccatgg gtggcagtc gaggagggtg tgctatagga gcaagggtca 2940
tctgctctga aggagtgcac gtggcagtc ggcattcgttc attcaacaca catttcttga 3000
ggaaagaata aagtccgctt gcttgtcaca ggcatcgttc aaagatgaat gcaacacggt 3060
gtgctacta catgccaaca ctgctagatg ctgggggtac aggggcagcg cgctgcagcc 3120
gcccgcctg aagatgcacat gcttcctctg gggtcagcag agccgggtacc cagccagcct 3180
caggctgatg tagacaggca gcttcctctg gggtcagcag agccgggtacc cagccagcct 3240
gccacggccg ctgccacgga tacagagcct gtttacctat gacgt 3285

```

<210> 240

<211> 12319

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 994861.1

<220>

<221> unsure

<222> 4425-4450, 11332-11370, 12298

<223> a, t, c, g, or other

<400> 240

```

gctgccccga gcctttcttg ggaagaactc caggcgtgcg gacgcaacag ccgagaacat 60
taggtgttgt ggacaggagc tgggaccaag atcttcggcc agccccgcac cctcccgcac 120
cttcagcac cgtcccgcac cctccgcac atctcccggg ccaccacgct tctatgtga 180
cccgcctggg caacgcgaa cccagtcgcg cagcgtgca gtgaattttc ccccaaaact 240
gcaataagcc gccttccaag gccaaagtgt tcataaatat aaagagcate ttatggatgt 300
gttcaacctt aatagtaacc catgcgctac ataaagtcaa agtgggaaaa agccccagg 360
tgaggggctc cctctctgga aaagtgcagc taccttgtca tttttcaacg atgcctactt 420
tgccaccagc ttacaacacc agtgaatttc tccgcacaa atgggtctaag attgaagtgg 480
acaaaaatgg aaaagatttg aaagagacta ctgtccttgt ggcccaaaat ggaaatatca 540
agattgggtca ggactacaaa gggagagtgt ctgtgcccac acatcccagag gctgtgggag 600
atgctccctc cactgtggtc aagctgctgg caagtgtatg ggggtcttac cgctgtgagc 660
tcactgtcag gattgaagac acacaagaca caggtgtcact gactgtggat ggggttgtgt 720
ttactacag ggccgcaacc agcagggtaca cactgaattt tgaggctgct cagaaggctt 780
gtttggacgt tggggcagtc atagcaactc cagagcagct ctttgctgcc tatgaagatg 840
gatttgagca gtgtgacgca ggctggctgg ctgatcagac tgtcagatat cccatccggg 900
ctcccagagt aggtgttat tgggaaaggc agggagcagg acttatggat 960
tccgttctcc ccaggaaact tacgatgtgt attgttatgt ggatcatctg gatggtgatg 1020
tgttccacct cactgtcccc agtaaatcca ccttcaggga ggctgcaaaa gagtgtgaaa 1080

```


accaggatgc	caggctggca	acagtggggg	aactccaggc	ggcatggagg	aacggcctttg	1140
accagtgcga	ttacgggttg	ctgtcggatg	ccagcgtgcg	ccaccctgtg	actgtggcca	1200
gggcccagtg	tggaggtggg	ctacttgggg	tgagaacctt	gtatcgtttt	gagaaccaga	1260
caggcttccc	tccccctgat	agcagatttg	atgcctactg	ctttaaacct	aaagaggcta	1320
caaccaatcga	tttgagtatc	ctcgcagaaa	ctgcatacc	cagtttatcc	aaagaaccac	1380
aaatggtttc	tgatagaact	acaccaatca	tccctttagt	tgatgaatta	cctgtcattc	1440
caacagagtt	ccctcccggtg	ggaaatatgt	tcagttttga	acagaaagcc	acagtccaac	1500
ctcaggctat	cacagatagt	ttagccacca	aattaccac	acctactggc	agtaccaaga	1560
agccctggga	tatggatgac	tactcacctt	ctgcttcagg	acctcttgga	aagctagaca	1620
tatcagaaat	taaggagaa	gtgctccaga	gtacaactgg	cgtctctcat	tatgctacgg	1680
attcatggga	tgggtgcgtg	gaagataaac	aaacacaaga	atcgggttaca	cagattgaac	1740
aaatagaagt	gggtcctttg	gtaacatcta	tggaaatcct	aaagcacatt	ccttccaagg	1800
aattccctgt	aactgaacaa	ccattggtaa	ctgcaagaat	gatcctggaa	tccaaaactg	1860
aaaagaaaaa	ggtaagcact	gtttctgaat	tggtaacac	aggtcactat	ggattcacct	1920
tgggagaaga	ggatgatgaa	gacagaacac	ttacagttgg	atctgatgag	agcaccttga	1980
tctttgacca	aattcctgaa	gtcattacgg	tgtcaagac	ttcagaagac	accatccaca	2040
ctcatttaga	agacttgag	tcagtctcag	catccacaac	tgtttcccct	ttaattatgc	2100
ctgataataa	ggttagcact	atggatgact	gggaagagag	acaaactagt	ggtaggataa	2160
cggaagagtt	tcttggcaaa	tatctgtcta	ctacaccttt	tccatcacag	catcgtagag	2220
aaatagaatt	gtttccttat	tctggtgata	aaatattagt	agagggaatt	tccacagtta	2280
tttatccttc	tctacaacaa	gaaatgacac	atagaagaga	aagaacagaa	acactaatat	2340
cagagatgag	cagatactat	tatacagatg	aaatacaaga	agagatcact	aaaagtccat	2400
ttatgggaaa	aacagaagaa	gaagtcttct	ctgggatgaa	actctctaca	tctctctcag	2460
agccaattca	tgttacagag	tcttctgtgg	aaatgaccaa	gtcttttgat	ttcccaacat	2520
tgataacaaa	gttaagtgca	gagccaacag	aagtaagaga	tatggaggaa	gactttacag	2580
caactccagg	tactacaaa	tatgatgaaa	atattacaac	agtgcctttg	gcccattgga	2640
ctttaagtgt	tgaagcagcc	actgtatcaa	aattggctatg	ggatgaagat	aatacaacat	2700
ccaagccttt	agagtctaca	gaaccttcag	cctcttcaaa	attgccccct	gccttactca	2760
caactgtggg	gatgaatgga	aaggataaag	acatcccaag	tttctactgaa	gatggagcag	2820
atgaatttac	tcttattcca	gatagtactc	aaaagcagtt	agaggagggt	actgatgaag	2880
acatagcagc	ccatggaata	ttcacaatta	gaattcagcc	aactacatca	actggtattg	2940
cagaaaagtc	aactttgaga	gattctacaa	ctgaagaaaa	agttccacct	atcacaagca	3000
ctgaaggcca	agtttatgca	accatggaag	gaagtgcctt	gggtgaagta	gaagatgtgg	3060
acctctctaa	gccagtatct	actgttcccc	aatltgcaca	cacttcagag	gtggaaggat	3120
tagcatttgt	tagttatagt	agcaccacag	agcctactac	ttatgtagac	tcttcccata	3180
ccattcctct	ttctgtaatt	cccaagacag	actggggagt	gttagtacct	tctgttccat	3240
cagaagatga	agttctaggt	gaaccctctc	aagacatact	tgtcattgat	cagactcgcc	3300
tgaagcgac	tatttctcca	gaaactatga	gaacaacaaa	aatcacagag	ggaacaactc	3360
aggaagaatt	ccctgggaaa	gaacagactg	cagagaaacc	agttcctgct	ctcagttcta	3420
cagcttggac	tcccaaggag	gcagtaacac	cactggatga	acaagagggc	gatggatcag	3480
catatacagt	ctctgaagat	gaattgttga	caggttctga	gaggggtccca	gttttagaaa	3540
caactccagt	tggaaaaatt	gatcacagtg	tgtcttatcc	accagggtgct	gtaactgagc	3600
acaaagtga	aacagatgaa	gtggtaacac	taacaccacg	cattggggcca	aaagtatcct	3660
taagtccagg	gcctgaacaa	aaatatgaaa	cagaaggtag	tagtacaaca	ggatttacat	3720
catctttgag	tccttttagt	acccacatta	cccagcttat	ggaagaaacc	actactgaga	3780
aaacatccct	agaggatatt	gatttaggct	caggattatt	tgaagagccc	aaagccacag	3840
aactcataga	atlttcaaca	atcaaagtca	cagttccaag	tgatattacc	actgccttca	3900
gttcaagtga	cagacttcac	acaacttcag	catcttcagg	atcttccgcg	atcactaaga	3960
aaccacctct	catcgacagg	gaacctgggtg	aagaaacaac	cagtgcacatg	gtaatcattg	4020
gagaatcaac	atctcatgtt	cctcccacta	cccttgaaaga	tattgtagcc	aaggaaacag	4080
aaaccgatat	tgatagagag	tatttcacga	cttcaagtcc	tcttgetaca	cagccaacaa	4140
gaccaccac	tgtggaagac	aaagaggcct	ttggacctca	ggcgctttct	acgccacagc	4200
ccccagcaag	cacaaaattt	caccttgaca	ttaatgttta	tattattgag	gtcagagaaa	4260
ataagacagg	tcgaatgagt	gatttgagtg	taattggtca	tccaatagat	tcagaatcta	4320
aagaagatga	accttgtagt	gaagaaacag	atccagtgca	tgatctaattg	gctgaaattt	4380
tacctgaatt	ccttgacata	attgaaatag	acctatacca	cagtnnnnnn	nnnnnnnnnn	4440
nnnnnnnnnn	gtgtgcaaat	gctactgatg	tgacaaccac	cccatctgtg	cagtacataa	4500
atgggaagca	tctcgttacc	actgtgccca	aggaccacga	agctgcagaa	gctaggcggtg	4560
gccagtttga	aagtgttgca	ccttctcaga	atlttctcgga	cagctctgaa	agtgatactc	4620
atccatttgt	aatagccaaa	acggaattgt	ctactgctgt	gcaacctaat	gaatctacag	4680
aaacaactga	gtctcttgaa	gttacctgga	agcctgagac	ttacctgaa	acatcagaa	4740
atlttttcagg	tggtagcct	gatgttttcc	ccacagtcac	attccatgag	gaatttgaaa	4800
gtggaacagc	caaaaaaggg	gcagaatcag	tcacagagag	agatactgaa	gttggtcatc	4860
aggcacatga	acatactgaa	cctgtatctc	tgtttctctga	agagtcttca	ggagagattg	4920
ccattgacca	agaatctcag	aaaatagcct	ttgcaaggcc	tacagaagta	acatttgggtg	4980
aagaggtaga	aaaaagtact	tctgtcacat	acactcccac	tatagttcca	agttctgcac	5040
cagcatatgt	ttcagaggaa	gaagcagtta	ccctaattag	aaatccttgg	ccagatgacc	5100

tggtgtctac	caaagaaagc	tgggtagaag	caactcctag	acaagttgta	gagctctcag	5160
ggagttcttc	gattccaatt	acagaaggct	ctggagaagc	agaagaagat	gaagatacaa	5220
tgttcaccat	ggtaactgat	ttatcacaga	gaaatactac	tgatacactc	attacttttag	5280
acactagcag	gataatcaca	gaaagctttt	ttgagggttc	tgcaaccacc	atztatccag	5340
tttctgaaca	acctctctgc	aaagtgggtc	ctaccaagtt	tgtaagtga	acagacactt	5400
ctgagtggtg	ttccagtacc	actgttgagg	aaaagaaaag	gaaggaggag	gagggaacta	5460
caggtagcgc	ttctacattt	gaggtatatt	catctacaca	gagatcggat	caattaattt	5520
taccctttga	attagaaagt	ccaaatgtag	ctacatctag	tgattcaggt	accaggaaaa	5580
gttttatgtc	cttgacaaca	ccaacacagt	ctgaaaggga	aatgacagat	tctactcctg	5640
tctttacaga	aacaaataca	ttagaaaatt	tgggggcaca	gaccactgag	cacagcagta	5700
tccatcaacc	tgggggttcag	gaagggtctga	ccactctccc	acatgggtcct	gcctctgtct	5760
ttatggagca	gggctctgga	gaagctgctg	ccgacccaga	aaccaccact	gtttcttctat	5820
tttcattaa	cgtagagtat	gcaattcaag	ccgaaaagga	agtagctggc	actttgtctc	5880
cgatgtgga	aaactacattc	tccactgagc	caacaggact	ggttttgagt	acagtaattg	5940
acagagtagt	tgctgaaaat	ataacccaaa	catccaggga	aatagtgaat	tcagagcgat	6000
taggagaacc	aaattatggg	gcagaaataa	ggggcttttc	cacaggtttt	cctttggagg	6060
aagatttcag	tggtgacttt	agagaatact	caacagtgtc	tcatcccata	gcaaaaagaag	6120
aaacggtaat	actggaagtc	tctggagatg	cagcatttag	ggacaccag	acttcacatt	6180
ctacagtacc	tacttcagtc	cacatcagtc	acatatctga	ctcagaagga	cccagtagca	6240
ccatggtcag	cacttcagcc	ttcccctggg	aagagtttac	atcctcagct	gaggggtcag	6300
gtgagcaact	ggtcacagtc	agcagctctg	ttgttccagt	gcttcccagt	gctgtgcaaa	6360
atgtttcttg	tacagcttcc	tccattatcg	acgaaggatt	gggagaagtg	ggtactgtca	6420
atgaaatgag	tagaagatcc	accattttac	caacagcaga	agtggaaggt	acgaaagctc	6480
cagtagagaa	ggaggaagta	aaggtcagtg	gcacagtttc	aacaaacttt	ccccaaacta	6540
tagagccagc	caaattatgg	tctaggcaag	aagtcaaccc	tgtaagacaa	gaaattgaaa	6600
gtgaaacaac	atcagaggaa	caaattcaag	aagaaaagtc	atttgaatcc	cctcaaaaact	6660
ctcctgtcaac	agaacaaaca	atctttgatt	caacagacatt	tactgaaact	gaactcaaaa	6720
ccacagatta	ttctgtacta	acaacaaaga	aaacttacag	tgatgataaa	gaaatgaagg	6780
aggaagacac	ttcttttagtt	aacatgtcta	ctccagatcc	agatgcaaat	ggcttggaat	6840
cttacacaac	tctccctgaa	gctactgaaa	agtcacattt	tttcttagct	actgcattag	6900
taactgaaat	tataccagct	gaacatgtag	tcacagattc	accaatcaaa	aaggaagaaa	6960
gtacaaaaca	ttttccgaaa	ggcatgagac	caacaattca	agagtcagat	actgagctct	7020
tatttctctg	actgggatca	ggagaagaag	ttttacctac	tctaccaaca	gagtcagtga	7080
attttactga	agtggaaaca	atcaataaca	cattatatcc	ccacacttct	caagtggaaa	7140
gtacctcaag	tgacaaaatt	gaagacttta	acagaatgga	aaatgtggca	aaagaagttg	7200
gaccactcgt	atctcaaaaca	gacatctttg	aaggtagtgg	gtcagtaacc	agcacaacat	7260
taatagaaat	tttaagtga	actggagcag	aaggaccac	ggtggcacct	ctccctttct	7320
ccacggacat	cggacatcct	caaaatcaga	ctgtcagggt	ggcagaagaa	atccagacta	7380
gtagaccaca	aaccataact	gaacaagact	ctaacaagaa	ttcttcaaca	gcagaaatta	7440
acgaaacaac	aacctcatct	actgattttc	tggctagagc	ttatggtttt	gaaatggcca	7500
aagaatttgt	tacatcagca	ccaaaaccat	ctgacttgta	ttatgaacct	tctggagaag	7560
gatctggaga	agtggatatt	gttgattcat	ttcacacttc	tgcaactact	caggcaacca	7620
gacaagaaag	cagcaccaca	tttgtttctg	atgggtccct	gggaaaacat	cctgaggtgc	7680
caagcgctaa	agctgttact	gtgtatggt	ttccacagct	ttcagtgtatg	ctgcctcttc	7740
attcagagca	gaacaaaagc	tcccctgac	caactagcac	actgtcaaat	acagtgtcat	7800
atgagagggtc	cacagacggg	agtttccaag	accgtttcag	ggaattcgag	gattccacct	7860
taaaacctaa	cagaaaaaaa	cccactgaaa	atattatcat	agacctggac	aaagaggaca	7920
aggatttaat	attgacaatt	acagagagta	ccatccttga	aattctacct	gagctgacat	7980
cggataaaaa	tactatcata	gatattgac	atactaaacc	tgtgtatgaa	gacattcttg	8040
gaatgcaaac	agatatagat	acagaggtag	catcagaacc	acatgacagt	aatgatgaaa	8100
gtaatgatga	cagcactcaa	gttcaagaga	tctatgaggc	agctgtcaac	ctttctttta	8160
ctgaggaaac	atttgagggc	tctgctgatg	ttctggctag	ctacactcag	gcaacacatg	8220
atgaaatcaat	gacttatgaa	gatagaagcc	aactagatca	catgggcttt	cacttcacaa	8280
ctgggatccc	tgctcctagc	acagaaacag	aattagacgt	tttacttccc	acggcaacat	8340
ccctgccaat	tcctcgtaag	tctgccacag	ttattccaga	gattgaagga	ataaaaagctg	8400
aagcaaaaag	ctgggatgac	atgtttgaat	caagcacttt	gtctgatggt	caagctattg	8460
cagacaaaag	tgaataata	ccaacattgt	gccaatttga	aaggactcag	gaggagtatg	8520
aagacaaaaa	acatgctggt	ccttcttttc	agccagaatt	ctcttcagga	gctgaggagg	8580
cattagtaga	ccatactccc	tatctaagta	ttgctactac	ccaccttatg	gatcagagtg	8640
taacagagg	gectgatgtg	atggaaggat	ccaatcccc	atattacact	gatacaacat	8700
tagcagtttc	aacatttgcg	aagttgtctt	ctcagacacc	atcatctccc	ctcactatct	8760
actcaggcag	tgaagcctct	ggacacacag	agatccccc	gccagtgct	ctgccaggaa	8820
tagacgtcgg	ctcatctgta	atgtccccc	aggattcttt	taaggaaatt	catgtaaata	8880
ttgaagcgac	tttcaaacca	tcaagtgaag	aataccttca	cataactgag	cctccctctt	8940
tatctcctga	cacaaaaatg	gaaccttcag	aagatgatgg	taaacctgag	ttattagaag	9000
aaatgggaag	cttctccac	agaacttatt	gctgtggaag	gaactgagat	tctccaagat	9060
ttccaaaaca	aaaccgatgg	tcaagtttct	ggagaagcaa	tcaagatggt	tcccaccatt	9120

```

aaaacacctg atgctggaac tgttattaca actgccgatg aaattgaatt agaaggtgct 9180
acacagtggc cacactctac ttctgcttct gccacctatg gggctcgaggc aggtgtgggtg 9240
ccttggtctaa gtccacagac ttctgagagg ccacgctttt cttcttctcc agaaataaac 9300
cctgaaactc aagcagctttt aatcagaggg caggattcca cgatagcagc atcagaacag 9360
caagtggcag cgagaattct tgattccaat gatcaggcaa cagtaaacc tgtggaattt 9420
aatactgagg ttgtcaacacc accattttcc cttctggaga cttctaata aacagatttc 9480
ctgattggca ttaatgaaga gtcagtggaa ggcacggcaa tctattttacc aggacctgat 9540
cgctgcaaaa tgaaccctgt ccttaacgga ggcacctgtt atcctactga aacttctctac 9600
gtatgcacct gtgtgccagg atacagcgga gaccagtgtg aacttgattt tgatgaatgt 9660
caactaatac ttgttaactaa tggagccact tgtgttgatg gttttaacac attcaggtgc 9720
ctctgccttc caagttatgt tgggtgcactt tgtgagcaag ataccgagac atgtgactat 9780
ggctggcaca aattccaagg gcagtgtctac aaatactttg cccatcgacg cacatgggat 9840
gcagctgaac gggaatgccg tctgcagggt gccatctca caagcctcct gtctcagcaa 9900
gaacaaatgt ttgttaactaa tgtggccat tgttatcagt ggataggcct caatgacaag 9960
atgtttgagc atgacttccg ttggactgat ggcagcacac tgcaatacga gaattggaga 10020
cccaaccagc cagacagctt cttttctgct ggagaagact gtgttgtaat catttggcat 10080
gagaatggcc agtggaaatga tgttccttgg caattaccat ctacactata cgtgcaagaa 10140
agaaacagct gctgcggcc agccctctgt tgtagaaaat gccaaagacct ttggaaagat 10200
gaaacctcgt tatgaaatca actcctgat tagataccac tgcaaagatg gtttcattca 10260
acgtcacctt ccaactatcc ggtgcttagg aaatggaaga tgggtctatac ctaaaattac 10320
ctgatgaac ccatctgcat accaaaggac ttattctatg aaatacttta aaaattcctc 10380
atcagcaaaag gacaattcaa taaatacatc caaacatgat catcgttgga gccggagggtg 10440
gcaggagctg aggcctgtat ccctaaaatg gcgaacatgt gttttcatca tttcagccaa 10500
agtcttaact tctgtgcct tctctatcac ctcgagaagt aattatcagt tgggttggat 10560
ttttggacca ccgttcagtc attttgggtt gccgtgctcc caaaacattt taaatgaaag 10620
tattggcatt caaaaagaca gcagacaaaa tgaaagaaaa tgagagcaga aagtaagcat 10680
ttccagccta tctaatttct ttagttttct atttgcctcc agtcagtcct atttctaata 10740
gtataccagc ctactgtact atttaaaatg ctcaatttca gcaccgatgg ccatgtaaat 10800
aagatgattt aatgttgatt ttaatcctgt atataaaaata aaaagtcaca atgagtttgg 10860
gcatatttaa tgatgattat ggagccttag aggtctttta tcatgtgttc ggctgctttt 10920
tgatagttta ggctggaaat ggtttcactt gctctttgac tgtcagcaag actgaagatg 10980
gcttttctcg gcagcctaga aaacacaaaa tctttaggtt cattgcacct atctcagcca 11040
taggtgcagt ttgcttctac atgatgctaa aggtctgcga tgggatcctg atggaactaa 11100
ggactccaat gtcgaactct tctttgctgc attccttttt cttcacttac aagaaaggcc 11160
tgaaaggagc acttttctgt aaccaggaa attttttagg ggtcaaagt ctaataatta 11220
accacacagc gtctactttt taatggcttt cataacacta actcataagg ttaccgatca 11280
atgcatttca tacggatata gacctagggc tctggagggt gggggattgt tnnnnnnnnn 11340
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ttttgtatat ataaccattt taatctttta 11400
taaagttttg aatgttcatt tatgaatgct gcagctgtga agcatacata aataaatgaa 11460
gtaagccata ctgatttaat ttattggatg ttattttccc taagacctga aaatgaacat 11520
agtatgctag ttatttttca gtgttagcct tttactttcc tcacacaatt tggaatcata 11580
taatataggt actttgtccc tgattaaata atgtgacgga tagaatgcat caagtgttta 11640
ttatgaaaag agtgaaaaag tatatagctt ttagcaaaag gtgtttgccc attctaagaa 11700
atgagcgaat atatagaaat agtgtgggca ttcttctctg ttaggtggag tgtatgtgtt 11760
gacatttctc cccatctctt cccactctgt tttctcccca ttatttgaat aaagtgactg 11820
ctgaagatga ctttgaatcc ttatccactt aatttaatgt ttaaagaaaa acctgtaatg 11880
gaaagtaaga ctcttccct aatttcagtt tagagcaact tgaagaagag tagacaaaaa 11940
ataaaatgca catagaaaaa gagaaaaagg gcacaaaagg attggcccaa tattgattct 12000
ttttataaaa acctcctttg gcttagaagg aatgactcta gctacaataa tacacagtat 12060
gtttaagcag gttcccttgg ttgttgcat aaatgtaatc cacttttagg tatttttagag 12120
cacagaacaa cactgtgttg atctagtagg tttctatttt tcttttctct ttacaatgca 12180
cataatactt tctgtatatt atatcataac gtgtatagtg taaaatgtga atgacttttt 12240
ttgtgaatga aaatctaaaa tctttgtaac tttttatata tgcttttgtt tcaccaanga 12300
aacctaaaaat ctttctttt 12319

```

<210> 241
 <211> 833
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: g545708

<400> 241
 aaaccagcct catgtgacaa agcgcaggac ccctcactgc cccaactgct tgctgtttctc 60
 tctttcttgg gctctaagga cccaggagtc tgggtgcaca gcctccttct ctctgagatt 120

caagagtctg	atcagcagcc	tcttcctcct	ccaggaccca	gaagccctga	gcttatcccc	180
atggagctct	gccggtccct	ggccctgctg	gggggctccc	tgggctgat	gttctgcctg	240
attgctttga	gcaccgattt	ctggtttgag	gctgtgggtc	ccaccactc	agctcactcg	300
ggcctctggc	caacagggca	tggggacatc	atatcaggct	acatccacgt	gacgcagacc	360
ttcagcatta	tggctgttct	gtgggccctg	gtgtccgtga	gcttcttggt	cctgtcctgc	420
ttccctcac	tgttccccc	aggccacggc	ccgcttgctc	caaccaccgc	agcctttgct	480
gcagccatct	ccatggtggt	ggccatggcg	gtgtacacca	gcgagcgggt	ggaccagcct	540
ccacaccccc	agatccagac	cttcttctcc	tggtccttct	acctgggctg	ggtctcagct	600
atctctttgc	tctgtacagc	tgccctgagc	ctgggtgctc	actgtggcgg	tccccgtcct	660
ggctatgaaa	ccttgtaggc	agaaggcaag	agcggcaaga	tgagttttga	gcgttggtatt	720
ccaaaggcct	catctggagc	ctcgggaaag	tctgggtccta	catctgcccg	cccttccagc	780
ccttccccag	cccctcctct	tgtttcttca	ttcattcaac	aaaatttggc	tgg	833

<210> 242

<211> 4411

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 347965.2

<220>

<221> unsure

<222> 3369

<223> a, t, c, g, or other

<400> 242

acggagacgg	accacagcaa	gcagaggctg	ggggggggaa	agacgaggaa	agaggaggaa	60
aacaaaagct	gctacttatg	gaagatacaa	aggagtctaa	cgtgaagaca	ttttgctcca	120
agaaatccct	agccatccct	ggcttctcct	ctatcatagc	tgtgatagct	ttgcttgctg	180
tgggggttgac	ccagaacaaa	gcattgccag	aaaacgttaa	gtatgggatt	gtgctggatg	240
cgggttcttc	tcacacaagt	ttatacatct	ataagtggcc	agcagaaaag	gagaatgaca	300
caggcgtggg	gcatcaagta	gaagaatgca	gggttaaagg	tcttggaatc	tcaaaatttg	360
ttcagaaaag	aaatgaaata	ggcatttacc	tgactgattg	catggaaaag	gctagggaag	420
tgattccaag	gtccagcac	caagagacac	ccgtttacct	gggagccacg	gcaggcatgc	480
ggttgctcag	gatggaaagt	gaagagttgg	cagacagggt	tctggatgtg	gtggagagga	540
gcctcagcaa	ctaccctttt	gacttccagg	gtgccaggat	cattactggc	caagaggaag	600
gtgcctatgg	ctggattact	atcaactatc	tgtctgggcaa	attcagtcag	aaaacaaggt	660
ggttcagcat	agtcccatat	gaaaccaata	atcaggaaac	ccttgaggct	ttggaccttg	720
ggggagcctc	tacacaagtc	acttttgtac	cccaaaacca	gactatcgag	tccccagata	780
atgctctgca	atctgcctc	tatggcaagg	actacaatgt	ctacacacat	agcttcttgt	840
gctatgggaa	ggatcaggca	ctctggcaga	aactggccaa	ggacattcag	ggtgcaagta	900
atgaaattct	cagggaacca	tgctttcatc	ctggatataa	gaaggtagtg	aacgtaagtg	960
acctttacaa	gacccctgc	accaagagat	ttgagatgac	tcttccattc	cagcagtttg	1020
aaatccaggg	tattggaaac	tatcaacaat	gccatcaaag	catcctggag	ctcttcaaca	1080
ccagttactg	cccttactcc	cagtgtgcct	tcaatgggat	tttcttgcca	ccactccagg	1140
gggatttttg	ggcattttca	gctttttact	ttgtgatgaa	gtttttaaac	ttgacatcag	1200
agaaagtctc	tcaggaaaag	gtgactgaga	tgatgaaaaa	gttctgtgct	cagccttggg	1260
aggagataaa	aacatcttac	gctggagtaa	aggagaagta	cctgagtga	tactgctttt	1320
ctggtacctc	cattctctcc	ctccttctgc	aaggctatca	tttcacagct	gattcctggg	1380
agcacatcca	tttcattggc	aagatccagg	gcagcgacgc	cggctggact	ttgggctaca	1440
tgctgaacct	gaccaacatg	atcccagctg	agcaaccatt	gtccacacct	ctctcccact	1500
ccacctatgt	cttcctcatg	gttctattct	ccctggctct	tttcacagtg	gccatcatag	1560
gcttgcttat	ctttcacaag	ccttcatatt	tctggaaaag	tatggtatag	caaaagcagc	1620
tgaatatggc	tggctggagt	gaggaaaaaa	atcgtccagg	gagcattttc	ctccatcgca	1680
gtgttcaagg	ccatccttcc	ctgtctgcca	gggccagtct	tgacgagtgt	gaagcttctc	1740
tggcttttac	tgaagccttt	cttttggagg	tattcaatat	cctttgcctc	aaggacttcg	1800
gcagatactg	tctcttccat	gagtttttcc	cagctacacc	tttctccttt	gtactttgtg	1860
cttgatatagg	ttttaaaagc	ctgacacctt	tcataatctt	tgtctttata	aagaacaata	1920
ttgactttgt	ctagaagaac	tgagagtctt	gagctcctgt	ataggaggct	gagctggctg	1980
aaagaagaat	ctcaggaact	ggttcagtgt	tactctttta	gaaccccttt	ctctctcctg	2040
tttgccatcc	attaagaaag	ccatatgatg	cctttggaga	aggcagacac	acattccatt	2100
cccagcctgc	tctgtgggtg	ggagaatttt	ctacagtagg	caaatatgtg	ctaaagccaa	2160
agagttttat	aaggaaatat	atgtgctcat	gcagtcata	cagttctcaa	tcccacccaa	2220
agcaggtagt	tcaataaatc	acatatcctc	aggtgatacc	caaatgctac	agagtgggaa	2280
actcagacct	gagatttgca	aaaagcagat	gtaaatatat	gcattcaaac	atcagggtct	2340

actatgaggt	aggtggtata	tacatgtcac	aaataaaaaat	acagttacaa	ctcaggggtca	2400
caaaaaatgc	atcttccaat	gcataatttt	attatggtaa	aatatacata	aatataattc	2460
accatttttaa	catttaattc	atattaaata	cgtacaaatc	agtgacattt	agtacattca	2520
cagtgttgtg	ccaccatcac	cactattttag	ttccagaaca	tttgcatcat	caatacattg	2580
tctagagaca	agactatcct	gggtaggcag	aaaccataga	tcttttgtgt	ttacagctat	2640
ggaaaccaac	tgtaccataa	agatagttca	ctgagtttta	aagccaagcc	acatcttatt	2700
tttccaaggt	ttaatttagt	gagagggcag	cattagtgtg	gagtggcatg	cttttgccct	2760
atcgtggaat	ttacacatca	gaatgtgcag	gatccaagtc	tgaaagtgtt	gccacccgct	2820
acacaacatg	ggctttgttt	gcttattcca	tgaagcagca	gctatagacc	ttaccatgga	2880
aacatgaaga	gacctgtcac	ccctttcctt	aaggattgct	gcaagagtta	cctggttgagc	2940
aggattgact	ggtgatgttt	cattctgacc	ttgtcccaag	ctctccatct	ctagatctgg	3000
ggactgactg	ttgagctgat	ggggaaagaa	aagctctcac	acaaaccgga	agccaaatgt	3060
ccccatctc	ttgaatgatc	aagtcacttt	tgacaacatc	caggtgaata	taaaaaactta	3120
ataaagctgt	ggaaaaggaa	tcttaactct	cttttctgct	acttaggtta	aattcactag	3180
atcttgatta	ggaatcaaaa	ttcgaattgg	gacatgttca	aattctttct	tgtggtagtt	3240
gcctatactg	tcacgcgtgc	tgttggttga	gcatttgtgg	tgtaccacgc	tgtgtgctca	3300
aggtgtattac	attcatcttc	tcatttaatc	ctcacaacaa	tctgaagaag	gtaggtatta	3360
caattcccnc	ttcatagaaa	cagaaactga	ggttcagaga	ggttaagcat	ttgccaaat	3420
ggctgagcca	aagcctacca	tgtacctaac	ctttattttc	tttcccgaa	ataccaggct	3480
gtctcctcat	aacttccaag	catgcactta	aaactccaca	tgaatacaag	gttcatggga	3540
cttgggtatc	atagaaaggg	aggcagaaag	ctgggtctgtt	cctgataggc	ttgtaattta	3600
atatcattct	gttcatgtgc	tttggatgga	agcacatctg	gcatatgatg	ctaatacagt	3660
gttccatac	ccctggcttc	ctaattttta	tgtttgctca	cagcatagta	gattgacatc	3720
aaatagtggc	cgatgatgat	gaaaataaag	gtcaaataag	ttgagccaat	aacagccgct	3780
tttttccctc	tgtctgcgta	tacaaagcac	tgctcatgcac	acaatctatt	ctgaccctca	3840
caacaaccca	taaggggtga	aatagtattt	ccatttttaca	aatgaggatc	acacaaacta	3900
ctacatggca	gagcagatac	tccaactcat	cttttctggg	tgaagcctat	tgctttttct	3960
tttctaaca	ctttccctca	gcaagttgga	attagacttc	acaagtctcc	ttcagagAAC	4020
acaaatcttt	tcttattcca	ttcctgtttg	gttgccctacg	tccaatctcc	ccctccccag	4080
agatgccaaa	aaaaaaatcc	tttaaggtat	ttgggagcca	aactcaactt	gttaaaatct	4140
caaatatgg	agacacacag	cagacacaac	ctaaccctaa	ttattttggc	aggaagggtg	4200
gttttagaggc	agatccagca	atctgctttg	ggccactctg	ggtggggtag	gtgaaataag	4260
attggtcact	gttaactaat	tttaatatgt	gattggccat	tgggttatcac	tgattaccat	4320
tctcccctgg	attttcaccc	aggactcaaa	acttggttct	gctaaccctg	ttccttttatg	4380
aggaaccttt	taaagattcc	tttataaggt	g			4411

<210> 243

<211> 2001

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 202361.1

<400> 243

gtctcaggga	agtagcaggc	gcccgttgag	agaactacgg	ccctgtcgga	aggtaacctc	60
cggtgcaaac	gaccatcggc	ggcaggcgag	cggtaacgtt	ggcgtcggg	ccttcctggg	120
cccgctctgag	gaaacttgct	gctcgaggcc	aggctgecta	ggacctgtcc	ctttttttct	180
atactggctc	ccacatccgg	gtttttttct	cgggacggcc	cttcggatgc	ttgggccaat	240
gggaatcgcc	atttaggggtg	ctccgcccac	cgggtcgctg	agagcatcct	ggaagtgcgt	300
gtaaatctct	cgagagttct	ctccgcacgc	ggggctggag	aagcgggtcc	tacgcacgct	360
ttgttgctgc	gctttgcttc	cgctcctccc	cctactcccg	ccttacctga	cttccttttc	420
ggaggaagat	ccttgagcag	cgcagcttgg	gacaaaggat	ttggagaaac	ccagggctaa	480
agtcacgttt	ttcctccttt	aagacttacc	tcaaacacttc	actccatggc	agttcccag	540
acccgcctca	accacatat	ttatatcaac	aacctcaatg	agaagatcaa	gaaggatgag	600
ctaaaaaagt	ccctgtacgc	catcttctcc	cagttttggc	agatcctgga	tatcctggta	660
tcacggagcc	tgaagatgag	gggccaggcc	tttgtcatct	tcaaggagggt	cagcagcgcc	720
accaacgccc	tggegtctca	tgcagggttt	ccctttctat	gacaaaacct	tgcgtatcca	780
gtatgccaa	accgactcag	atatcattgc	caagatgaaa	ggcaccttcg	tggagcggga	840
cgcgaagcgg	gagaagagga	agcccaagag	ccaggagacc	ccggccacca	agaaggctgt	900
gcaaggcggg	ggagccaccc	ccgtgggtgg	ggctgtccag	gggcctgtcc	cgggcagtc	960
gccgatgact	caggcgcccc	gcattatgca	ccacatgcgc	ggccagccgc	cctacatgcc	1020
gccccctgg	atgatcccc	cgcagggcct	tgcacctggc	cagatccac	caggggcat	1080
gcccgcgcag	cagcttatgc	caggcctgtc	gcccctgtcc	cagcctcttt	ctgagaatcc	1140
accgaatcac	atcttgttcc	tcaccaacct	gccagaggag	accaacgagc	tcatgctgtc	1200
catgcttttc	aatcagttcc	ctggcttcaa	ggaggctcgt	ctggtacccg	ggcggcatga	1260

```

catcgcccttc gtggagtttg acaatgaggt acaggcaggg gcagctcgcg atgccctgca 1320
gggctttaag atcacgcaga acaacgccat gaagatctcc ttgccaaga agtagcacct 1380
tttcccccca tgcctgcccc ttccctgttt ctggggccac ccctttcccc cttggctcag 1440
ccccctgaag gtaagtcccc ccttgggggc cttcttggag ccgtgtgtga gtgagtgggtc 1500
gccacacagc attgtaccca gagtctgtcc ccagacattg cacttggcgc tgttaggcgc 1560
gaattaaagt ggctttttga ggtttgttt ttacacatca tttgtctgtc tgattttctt 1620
gctcttcattg gttcctttcc ctccacctca gcagcacatc ctgggttttt ggacctcttg 1680
gcatttttagg gtttgcaacc ttggggaaac ataggatagt gtagtaatat tgttcaaact 1740
caggttacaa tgactacttt ggcagttttg tatgttgccc caattcacag caggaaatgg 1800
aatcctgggt caggaaatgg aaagtcaggg ctgccgcgta cagttaggca ggatgggtac 1860
tgacacagaa tggcaccttt taagggcaca ccattcactt tgtaggctta caagtttatg 1920
ccaccacttt tctaacagat gacaagagtg tccagggaga ggtgtctctt cacccttttt 1980
ttactcttct caaaagtgca g 2001

```

<210> 244
 <211> 1366
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 369950.12

```

<400> 244
ctttgtcctc cagtggctgg taggcagtgg ctgggaggca ggggccaat tagtgtcgtg 60
cggcccgctg cgaggcgagg tccggggagc gagcgagcaa gcaaggcggg aggggtggcc 120
ggagctgcgg cggctggcac aggaggagga gcccgggcgg gcgaggggcg gccggagagc 180
gccagggcct gagctgccgg agcggcgccct gtgagtgagt gcagaaagca ggcgcccgcg 240
cgctagccgt ggcaggagca gcccgcacgc cgcgctctct ccctgggcga cctgcagttt 300
gcaatatgac tttggaggaa ttctcggtcg gagagcagaa gaccgaaagg atggataagg 360
tgggggatgc cctggaggaa gtgctcagca aagccctgag tcagcgcacg atcactgtcg 420
gggtgtacga agcggccaag ctgctcaacg tcgaccccg taacgtggtg ttgtgcctgc 480
tggcgggcga cgaggacgac gacagagatg tggtctctga gatccacttc accctgatcc 540
aggcgttttg ctgcgagaac gacatcaaca tcctgcgcgt cagcaaccgg ggccggctgg 600
cggagctcct gctcttggag accgacgctg gcccgcgggc gagcgagggc gccgagcagc 660
ccccggacct gcactgcgtg ctggtgacga atccacattc atctcaatgg aaggatcctg 720
ccttaagtca acttatttgt ttttgccggg aaagtcgcta catggatcaa tgggttccag 780
tgattaatct ccctgaacgg tgatggcatc tgaatgaaaa taactgaacc aaattgcact 840
gaagtttttg aaataccttt gtagttactc aagcagttac tcctacact gatgcaagga 900
ttacagaaac tgatgccaag gggctgagt agttcaacta catgttctgg gggcccgag 960
atagatgact ttgcagatgg aaagaggtga aaatgaagaa ggaagctgtg ttgaaacaga 1020
aaaaaagtc aaaaaggaaca aaaattacaa agaaccatgc aggaaggaaa actatgtatt 1080
aatttagaag ggttgagtta cattaaaata aaccaaatat gttaaagtgt aagtgtgcag 1140
ccatagtttg ggtatttttg gtttatatgc cctcaagtaa aagaaaagcc gaaaggggta 1200
atcatatttg aaaaccatat tttattgtat tttgatgaga tattaaattc tcaaagtttt 1260
attataaatt ctactaagtt attttatgac atgaaaagtt atttatgcta taaatttttt 1320
gaaacacaat acctacaata aactggtatg aataattgca tcattt 1366

```

<210> 245
 <211> 2541
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 331403.8

```

<400> 245
tgtttttccc gcgaaactcg gcggtgagc gtggaggttc ttgtctcccc tggtttgtga 60
agtgcggaaa accagagggc cagtcatgtc gggattcgac gatcctggca ttttctacag 120
cgacagcttc gggggcgacg ccagggcga cgaggggcag gcccgcaaat cgcagctgca 180
gaggcgcttc aaggagttec tgcggcagta ccgagtgggc accgaccgca cgggcttcac 240
cttcaaatac agggatgaac tcaagcggca ttacaacctg ggggagtact ggattgaggt 300
ggagatggag gatctggcca gctttgatga ggacctggcc gactacttgt acaagcagcc 360
agccgagcac tctggggagg aggtgctcca ggcacatccag gtcagtctca agtcggacgc 420
gccccggcct tctggggagg aggtgctcca ggcacatccag gtcagtctca agtcggacgc 480
cagcccttcc agcattcgta gcctgaagtc ggacatgatg tcacacctgg tgaagatccc 540

```

```

tggcatcatc atcgcgccct ctgcggtccg tgccaaggcc acccgcatct ctatccagtg 600
ccgcagctgc cgcaaacacc tcaccaacat tgccatgcgc cctggcctcg agggctatgc 660
cctgccagg aagtgaaca cagatcaggc tgggcgcccc aaatgcccat tggaccgta 720
cttcatcatg cccgacaaat gcaaatgcgt ggacttccag accctgaagc tgcaggagct 780
gcctgatgca gtcccccacg gggagatgcc cagacacatg cagctctact gcgacaggta 840
cctgtgtgac aaggtcgtcc ctgggaacag gggttaccatc atgggcatct actccatcaa 900
gaagtttggc ctgactacca gcaggggccc tgacagggtg ggcgtgggca tccgaagctc 960
ctacatccgt gtcctgggca tccagggtga cacagatggc tctggccgca gctttgctgg 1020
ggcgtgagc cccaggagg aggaggagt ccgtcgctcg gctgccctcc caaatgtcta 1080
tgagtgatc tccaagagca tcgccccctc catctttggg ggacacagaca tgaagaaggc 1140
cattgcctgc ctgctctttg ggggtcccg aaagaggctc cctgatggac ttactcgccg 1200
aggagacatc aacctgctga tgctagggga ccctgggaca gccaaagtccc agcttctgaa 1260
gtttgtggag aagtgttctc ccattggggg atacacgtct gggaaaggca gcagcgcagc 1320
tgacttgaca gcttcgggta tgagggaccc ttcttcccg aatttcata tggaggcgcg 1380
agccatggtc ctggccgatg gtggggctct ctgtattgac gagtttgaca agatgcgaga 1440
agatgaccgt gtggcaatcc acgaagccat ggagcagcag accatctcta tcgccaaggc 1500
tgggatcacc accacctga actcccgctg ctccgtcctg gctgctgcca actcagtgtt 1560
cggccgtggt gatgagcga agggggagga caacattgac ttcattgcca ccatcttgct 1620
gcgcttcgac atgatcttca tcgtcaaggc tgagcacaat gaggagaggg atgtgatgct 1680
ggccaagcat gtcactctc tgcacgtgag cgcactgaca cagacacagg ctgtggaggg 1740
cgagattgac ctggccaagc tgaagaagtt tattgcctac tgccgagtga agtgtggccc 1800
ccggtgtgca gcagaggctg cagagaaact gaagaaccgc tacatcatca tgcggagcgg 1860
ggcccgctag cagcagagg acagtgcacc ccgtccagc atccccatca ctgtgaggca 1920
gctggaggcc attgtgcgca tcgcggaagc cctcagcaag atgaagctgc agcccttcgc 1980
cacagaggca gatgtggagg aggccttgcg gctcttccaa gtgtccacgt tggatgctgc 2040
cttgcctggt accctgtcag ggggtggagg cttcaccagc caggaggacc aggagatgct 2100
gagcgcgcat cagaagcagc tcaagcgccg ttctgccatt ggctccagg tgtctgagca 2160
cagcatcatc aaggacttca ccaagcagaa ataccggag cagccatcc acaaggctgt 2220
gcagctcatg ctgcggcgcg gcgagatcca gcatcgcatg cagcgcaagg tctctaccg 2280
cctcaagtga gtcgcgccgc ctactggac tcatggactc gccacgcct cgcctctcct 2340
gcccgctcct gccattgaca atgttgcctg gaacctctgc tocccactgc agccctcgaa 2400
cttccaggc accctcttt ctgcccaga ggaaggagct gtagtgtcct gctgcctctg 2460
ggcgcccgcc tctagcgcg ttctgggaag tgtgcttttg gcatccgtta ataataaagc 2520
cacggtgtgt tcaggtaaaa a 2541

```

<210> 246

<211> 997

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 233889.3

<400> 246

```

ggacggtggt gacggtgggg acatcaggct gccccgcagt accagggagc gactgaagtg 60
cccatgccgc ttgctccgga gaagaaaatt tgaagttact tctgtggcta actttatagt 120
tctattggac atcaccgacc gctctaggct atggaaaatt ctgtagaaca aacaactgga 180
agttggaaga aaagacagta agaaatagca aggaagggtg tgctgttggg agttgcttgg 240
aggttggcgg cgcggggctg aaggctagca aaccgagcga tcatgtcgca caaacaatt 300
tactattcgg acaaatacga cgacgaggag tttgagtatc gacatgtcat gctgccccag 360
gacatagcca agctggtccc taaaacccat ctgatgtctg aatctgaatg gaggaatctt 420
ggcggttcagc agagttaggg atgggtccat tatatgatcc atgaaccaga acctcacatc 480
ttgctgttcc ggcgcccact acccaagaaa ccaagaaat gaagctggca agctactttt 540
cagctccaag ctttacacag ctgtccttac ttocatacat ctttctgata acattattat 600
gttgctctct tgtttctcac tttgatattt aaaagatgtt caatacactg tttgaatgtg 660
ctggttaactc ctttgcctct tgagtagagc caccaccacc atagcccagc cagatgagtg 720
ctctgtggac ccacagccta agctgagtg gacccagaa gccacgatgt gctctgtatc 780
cagaacacac ttggcagatg gaggaagcat ctgagtttga gaccatggct gttacaggga 840
tcatgtaaac ttgctgtttt tgttttttcc tgccgggtgt tgtatgtgtg gtgacttgcg 900
gatttatgtt tcagtgactt ggaaactttc cattttatc aagaaatctg ttcattgtta 960
aagccttgat taaagaggaa gtttttataa tctaaaa 997

```

<210> 247

<211> 1655

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 021148.4

<220>
 <221> unsure
 <222> 1630
 <223> a, t, c, g, or other

<400> 247
 gccgggggct ggaggacagg tttgtgcgct ggacgcaagc accaggcgca gcctcgcttc 60
 gccgagaccc ggccagaacg tgttacgagt cagtttttag tgaaaaaaca ttgagctagg 120
 agccaagacc catctcttca ctatttttgg attgtgcaag tcatcttacc tctctggatc 180
 tcagttgtct catccgtaaa aaggagataa aaattattta cctgcctgaa catgaggtgg 240
 aggaccatcc tgctacagta ttgctttctc ttgattacat gtttacttac tgctcttgaa 300
 gctgtgccta ttgacataga caagacaaaa gtacaaaata ttcaccctgt ggaaagtgcg 360
 aagatagaac caccagatac tggactttat tatgatgaat atctcaagca agtgattgat 420
 gtgctggaaa cagataaaca cttcagagaa aagctccaga aagcagacat agaggaaata 480
 aagagtggga ggctaagcaa agaactggat ttagtaagtc accatgtgag gacaaaactt 540
 gatgaactga aaaggcaaga agtaggaagg ttaagaatgt taattaaagc taagttaggat 600
 tcccttcaag atataggcat ggaccaccaa gctcttctaa aacaatttga tcacctaaac 660
 cacctgaatc ctgacaagtt tgaatccaca gatttagata tgctaataca agcggcaaca 720
 agtgaatctg aacactatga caagactcgt catgaagaat ttaaaaaata tgaaatgatg 780
 aaggaaatc aaaggagaga atatttataa acattgaatg aagaaaagag aaaagaagaa 840
 gagtctaaat ttgaagaaat gaagaaaaag catgaaaatc accctaaagt taatcaccca 900
 caatttttta aaattggttc acagggaagc aaagatcaac taaaagaggt atgggaagag 960
 actgatggat tggatcctaa tgactttgac cccaagacat ttttcaaatt acatgatgtc 1020
 aatagtcatg gattcctgga tgaacaagaa ttagaagccc tatttactaa agagttaggag 1080
 aaagtatatg accctaaaaa tgaagaggat gatattgtag aaatggaaga agaaaggctt 1140
 agaattgagg aacatgtaat gaattgaggt gatactaaac aagacagatt ggtgactctg 1200
 gaggagtgtt tgaaagccac agaaaaaaa gaattcttgg agccagatag ctgggagaca 1260
 tttagtccac acattttaaag tgaactaaaag aactatgaaa tattattgct 1320
 ttacaagaaa atgaacttaa gaagaaggca gatgagcttc agaaacaaaa agaagagcta 1380
 caacgtcagc atgatcaact ggaggctcag aagctggaat atcatcaggt catacagcag 1440
 atggaacaaa aaaaattaca acaaggaatt cctccatcag ggccagctgg agaattgaag 1500
 tttgagccac acattttaaag accagaactt accagaagagc tggttaactca 1560
 acatctattt catcttttta gctcccttcc tttttctctg ctcaataaat attttaaaag 1620
 catatttggg ataaaggagg atactttttt aaatg 1655

<210> 248
 <211> 3230
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 976749.1

<400> 248
 tagcgctgag tggtttttct gatcatgtct ggtggctcgc cggattataa cagcagagaa 60
 catggcggcc cagaggggaat ggaccccgat ggtgtcatcg agagcaactg gaatgagatt 120
 gttgataact ttgatgatat gaattttaaag gagtctctcc ttcgtggcat ctatgcttac 180
 ggttttgaga agccttccgc tattcagcag agagctatta ttccctgtat taaagggtat 240
 gatgtgattg ctcaagctca gtcaggctact gggcaagaca gccacatttg ctatttccat 300
 cctgcaacag ttggagattg agttcaagga gacccaagca ctagtatttg cccccaccag 360
 agaactggct caacagatcc aaaaggtaat tctggcactt ggagactata tgggagccac 420
 ttgtcatgcc tgcattggtg gaacaaatgt tcgaaatgaa atgcaaaaac tgcaggctga 480
 agcaccacat attgtgttg gtacacccgg gagagtgttt gatattgttaa acagaagata 540
 cttttctcca aaatggatca aaatgtttgt tttggatgaa gcagatgaaa tgttgagccg 600
 tggttttaag gatcaaatct atgagatttt ccaaaaacta aacacaagta ttcaggttgt 660
 gttgctttct gccacaatgc caactgatgt gttggaagt accaaaaaat tcatgagaga 720
 tccaattcga attctggtga aaaaggaaga attgaccctt gaaggaatca aacagtttta 780
 tattaatgtt gagagagagg aatggaagtt ggatacactt tgtgacttgt acgagacact 840
 gaccattaca caggctgtta tttttctcaa tacgaggcgc aaggtggact ggctgactga 900
 gaagatgcac gccagagact tcacagtttc tgctctgcat ggtgacatgg accagaagga 960
 gagagatggt atcataggg aattccggtc aggggtcaagt cgtgttctga tcactactga 1020
 cttgttggct cgcgggattg atgtgcaaca agtgtcttgg gttataaatt atgatctacc 1080

taccaatcgt	gaaaactata	ttcacagaat	tggcagaggg	ggtcgatttg	ggaggaaagg	1140
tgtggctata	aactttgtta	ctgaagaaga	caagaggatt	cttcgtgaca	ttgagacttt	1200
ctacaatact	acagtggagg	agatgcccat	gaatgtggct	gaccttattt	aattcctggg	1260
atgagagttt	tggatgcagt	gctcgtgttt	gctgaatagg	cgatcacaa	gtgcattgtg	1320
ctctcttctt	tgggaatatt	tgaatcttgt	ctcaatgtct	ataacggatc	agaaatacac	1380
attttgatag	caaagcgacg	ttagtcgtga	gctcttgtga	ggaaagtcac	tggctttatc	1440
ctcttttagag	ttagactgtt	gggggtgggta	taaaagatgg	ggctctgtaa	atctttcttt	1500
cttagaaatt	tatttcctag	ttctgtagaa	atgggtgtat	tagatgttct	ctatcattta	1560
ataatatact	tgtggactaa	aagatataag	tgtgtataaa	aatcagccaa	ttatgttaaa	1620
ctagcatatc	tgcctttatt	gtgtttgtca	ttagcctgag	tagaaaggcc	tttaaaattt	1680
ttttagaaag	catttgaatg	cattttgttt	gggtattgtat	ttattcaata	aagtatttaa	1740
ttagtgtctaa	gtgtgaactg	gacctgtgtt	ctaagcccca	gcaagcaatc	ctaggtaggg	1800
tttaatcccc	agtaaaattg	ccatattgca	catgtcttaa	tgaagtttga	atgttaaata	1860
aattgtatac	tcactttaaa	gggtgctttt	gtccttttat	ttttattaca	acttcattat	1920
ttacaaaacc	ccccatccag	atatattcac	gttaacaatt	ctgagataac	tgctgcatca	1980
cagttgcaca	aaggctgatg	agttgcaaat	gttcacacgc	accatctgct	aggcatttgt	2040
caacttcggc	aagtttttct	gtgataatag	acttctgttt	atcagataag	ttattttcta	2100
caaccacatc	atggagtgtg	ttgacgagct	gagttgtctg	atgacctca	tctattaaat	2160
ccctgaccac	agcttctagt	ttgtcaaaa	agccactctg	acaggcagca	aatactccat	2220
caattttctc	agctgggtatt	accccagcaa	tgtctgtaat	cactttctct	gtgatctcct	2280
ttcacctgtt	taatcgagta	gcgctttgaa	gaaatgtaat	ggcttttctt	aagtctcctt	2340
ctgacacttt	aacaagataa	gctattccct	catcactaat	tttgacattt	tccttcttgg	2400
caattgtctag	taatcgctgc	tgttgaattt	tatctgacag	aggcttgaag	cggaaattttg	2460
aacatctaga	ggtcaggggt	tcaattatct	gactgacata	gttacagata	agacagaatc	2520
gggtgggttt	cgactccttc	tccatggtac	gtcttaaagc	tgcttgagca	gctgagggtca	2580
tagaatctgc	ttcatccaga	atcacatct	taaaaggcgg	acacggcttc	ccatctgagc	2640
gacttctcta	cacagttaat	ttttcacttt	ctctcgaact	acttgatttc	acttgatttc	2700
cacgttcatc	agatgcattt	aactcaagaa	ctcttaatcg	gaaaagttca	ggcccaaaga	2760
gttctctagc	tgctgcaaaa	atagtggatg	tttttccagt	tccagggtgt	ccgtaaaaca	2820
agagattagg	aagatctgct	ccttctaaag	attttttcag	cactgcaacc	acttcttctt	2880
ggaaagcaac	ttcatccaca	cattttgggc	gatatttttc	cacccaggga	acgggttttg	2940
ctttcttggt	ctctccgcta	cttcccgcat	tggcagctac	tcctcgatcc	ttggtcagcg	3000
gggttttagt	actgatggat	gtacctttaa	gaaatgcttg	catggtactt	cacccagtta	3060
gcctggcttc	tcgtgcaggt	caccgcccgc	ggctcggttc	tcagggtttc	gcgatacaaa	3120
aaggacgaga	tggtctcgaa	gtcttagctc	cgctcacctaa	tctgagaata	acgggcccag	3180
gagacttaag	atcactgatg	tccccacagt	cgctcagtt	cccgccacgg		3230

<210> 249

<211> 1068

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 252719.12

<220>

<221> unsure

<222> 1063

<223> a, t, c, g, or other

<400> 249

ctggttcggc	ccacctctga	aggttccaga	atcgatagtg	aattcgtggt	ttcctttggc	60
ggattttctg	ttttcggaag	ttgctgggtt	cgttttattc	agcggcagtg	gtgctttccc	120
gaatctcaga	atgcctgtta	aaagatcact	gaagttggat	ggtctgttag	aagaaaattc	180
atttgatcct	tcaaaaatca	caaggaagaa	aagtgttata	acttattctc	caacaactgg	240
aacttgtcaa	atgagtctat	ttgcttctcc	cacaagttct	gaagagcaaa	agcacagaaa	300
tggactatca	aatgaaaaga	gaaaaaaatt	gaatcacccc	agttaaactg	aaagcaaaaga	360
atctacaaca	aaagacaatg	atgaattcat	gatgttgcta	tcaaaagttg	agaaattgtc	420
agaagaaatc	atggagataa	tgcaaaattt	aagtagtata	caggcttttg	agggcagtag	480
agagcttgaa	aatctcattg	gaatctcctg	tgcacacat	ttcttaaaaa	gagaaatgca	540
gaaaaccaaa	gaactaatga	caaaagtga	taaacaacaaa	ctgtttgaaa	agagtacagg	600
acttctcac	aaaggtcagc	ctcagatgtc	acaacctctg	tgaagctctc	cccagctctc	660
ctagcatcac	gtcatcttga	cagctatgaa	ttccttaaag	ccattttaaa	ctgaggcatt	720
aagaagaaat	gcactcacca	tgagcaccaa	cttctgcac	tgctgatca	tatttaaagg	780
aacagagaaa	tatttgtaat	taatctgcc	agtaaatacc	agctcgtagc	agttggcagg	840
tgcatgtcta	gataaaattt	cttgacgcta	atttaaactt	tctacacgca	ccagttagata	900

atctcaatgt	aaataatata	tttcttcttg	gctctttaat	gtaagccaac	atggagagga	960
agatcttgac	ttatattctg	taccacatac	acttctgtgg	acttttagca	tttgtgggta	1020
gacttaataa	agcatgtata	aaagtggcaa	aaaaaaaaaa	aangggcg		1068

<210> 250

<211> 4244

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: g6063478

<400> 250

gcccgcgggt	agatgcgggtg	cttttaggag	ctccgtccga	cagaacgggt	gggccttgcc	60
ggctgtcggt	atgtcgcgac	agagcaccct	gtacagcttc	ttccccaagt	ctccggcgct	120
gagtgatgcc	aacaaggcct	cggccagggc	ctcacgcgaa	ggcgcccggt	ccgcccgctc	180
ccccggggcc	tctccttccc	caggcgggga	tgccggctgg	agcgaggctg	ggcctggggc	240
caggcccttg	gcgcgtctcg	cgtcaccgcc	caaggcgaag	aacctcaacg	gagggctgcg	300
gagatcggtg	gcgcctgctg	ccccaccag	ttgtgacttc	tcaccaggag	atttggtttg	360
ggccaagatg	gagggttacc	cctgggtggc	ttgtctggtt	tacaaccacc	cctttgatgg	420
aacatctcat	cgcgagaaag	ggaatcag	ccgtgttcac	gtacagtttt	ttgatgacag	480
cccaacaagg	ggctgggtta	gcaaaaggct	tttaaagcca	tatacagggt	caaaatcaaa	540
ggaagcccag	aaggagggtc	atttttacag	tgcaaagcct	gaaatactga	gagcaatgca	600
acgtgcagat	gaagccttaa	ataaagacaa	gattaagagg	cttgaattgg	cagtttgtga	660
tgagccctca	gagccagaag	aggaagaaga	gatggaggta	ggcacaactt	acgtaacaga	720
taagagtga	gaagataatg	aaattgagag	tgaagaggaa	gtacagccta	agacacaagg	780
atctaggcga	agtagccgcc	aaataaaaaa	acgaagggtc	atatcagatt	ctgagagtga	840
cattggtggc	tctgatgtgg	aatttaagcc	agacactaag	gaggaaggaa	gcagtgtatg	900
aataagcagt	ggagtggggg	atagtgaag	tgaaggcctg	aacagccctg	tcaaagttgc	960
tcgaagcgcg	aagagaatgg	tgactggaaa	tggtctctct	aaaaggaaaa	gctctaggaa	1020
ggaaacgccc	tcagccacca	aacaagcaac	tagcatttca	tcagaaacca	agaatacttt	1080
gagagctttc	tctgcccttc	aaaattctga	atcccaagcc	cacgttagtg	gagggtggtg	1140
tgacagtagt	cgccctactg	tttggtatca	tgaaacttta	gaatggctta	aggaggaaaa	1200
gagaagagat	gagcacagga	ggaggcctga	tcaccccgat	tttgatgcat	ctacactcta	1260
tgtagctgag	gatttctctc	attcttgtac	tcctgggatg	aggaagtggg	ggcagattaa	1320
gtctcagaac	tttgatcttg	tcattctgtta	caagggtggg	aaattttatg	agctgtacca	1380
catggatgct	cttattggag	tcagtgaact	ggggctggta	ttcatgaaag	gcaactgggc	1440
ccattctggc	tttctgaaa	ttgcatttgg	ccgtttattca	gattccctgg	tgacagaagg	1500
ctataaagta	gcacgagtg	aacagactga	gactccagaa	atgatggagg	cacgatgtag	1560
aaagatggca	catatatcca	agtatgatag	agtggtgagg	aggagatctt	gtaggatcat	1620
taccaagggt	acacagactt	acagtgtgct	ggaagggtgat	ccctctgaga	actacagtaa	1680
gtatcttctt	gttgcataat	aaaaagagga	gatttcttct	ggccatactc	gtgcatatgg	1740
tggtgtgctt	gttgatactt	cactgggaaa	gtttttcata	ggtcagtttt	cagatgatcg	1800
ccattgttct	agatttagga	ctctagtggc	acactatccc	ccagtacaag	ttttatttga	1860
aaaagggaat	ctctcaaaag	aaactaaaac	aattctaaag	agttcattgt	cctgttctct	1920
tcagggaagg	ctgataccgg	gctcccagtt	ttgggatgca	tcacaaactt	tgagaactct	1980
ecttgaggaa	gaatatthta	gggaaaagct	aagtgtatgg	attgggggtg	tgtaacccca	2040
ggtgcttaaa	ggtatgactt	cagagtctga	ttccattggg	ttgacaccag	gagagaaaaa	2100
tgaattggcc	ctctctgctc	taggtggttg	tgtcttctac	ctcaaaaaat	gccttattga	2160
tcaggagctt	ttatcaatgg	ctaattttga	agaatatatt	cccttggatt	ctgacacagt	2220
cagcactaca	agatctgggtg	ctatcttcac	caaagcctat	caacgaatgg	tgctagatgc	2280
agtgacatta	aacaacttgg	agatttttct	gaatggaaca	aatgggttcta	ctgaagggaac	2340
cctactagag	agggttgata	cttgccatac	tccttttggt	aagcggctcc	taaagcaatg	2400
gctttgtgct	ccactctgtg	accattatgc	tattaatgat	cgtctagatg	ccatagaaga	2460
cccatgggtt	gtgcctgaca	aaatctccga	agttgtagag	cttctaaaga	agcttccaga	2520
tcttgagagg	ctactcagta	aaattcataa	tggtgggtct	cccctgaaga	gtcagaacca	2580
cccagacagc	agggtcataa	tgtatgaaga	aactacatac	agcaagaaga	agattattga	2640
ttttctttct	gctctggaag	gattcaaaag	aatgtgtaaa	attatagggg	tcattggaaga	2700
agttgctgat	ggttttaagt	ctaaaaatcct	taagcaggtc	atctctctgc	agacaaaaaa	2760
tcctgaagggt	cgttttctctg	atttgactgt	agaattgaac	cgatgggata	cagcctttga	2820
ccatgaaaag	gctcgaaaga	ctggacttat	tactcccaaa	gcaggctttg	actctgatta	2880
tgaccaagct	cttgctgaca	taagagaaaa	tgaacagagc	ctcctggaat	acctagagaa	2940
acagcgcaac	agaattggct	gtaggaccat	agtctattgg	gggattggta	ggaaccgtta	3000
ccagctggaa	atttcaccac	atttcctgaga	tcgcaatttg	ccagaagaat	acgagttgaa	3060
atctaccaag	aagggtctgta	aacgatactg	gacccaaaact	attgaaaaga	agttggctaa	3120
tctcataaat	gctgaagaac	ggagggtatg	atcattgaag	gactgcatgc	ggcgactggt	3180

ctataacttt	gataaaaaatt	acaaggactg	gcagtcctgct	gtagagtgtg	tcgcagtggt	3240
ggatgtttta	ctgtgcctgg	ctaactatag	togagggggt	gatggtccta	tgtgtcgccc	3300
agtaattctg	ttgcgggaag	ataccccccc	cttcttagag	cttaaaggat	cacgccatcc	3360
ttgcattacg	aagacttttt	ttggagatga	ttttattcct	aatgacattc	taataggctg	3420
tgagggaag	gagcaggaaa	atggcaaaag	ctattgtgtg	cttggtactg	gaccaaata	3480
ggggggcaag	tctacgctta	tgagacaggc	tggtttatta	gctgtaatgg	cccagatggg	3540
ttgttacgtc	cctgctgaag	tgtgcaggct	cacaccaatt	gatagagtgt	ttactagact	3600
tggtgcctca	gacagaataa	tgtcagggtg	aagtacattt	tttgttgaat	taagtgaac	3660
tgccagcata	ctcatgcatg	caacagcaca	ttctctgggt	cttggtgatg	aattaggaag	3720
aggtactgca	acatttgatg	ggacggcaat	agcaaagtca	gttggttaag	aacttgctga	3780
gactataaaa	tgctgtacat	tattttcaac	tcactacat	tcattagtag	aagattatcc	3840
tcaaaatggt	gctgtgcgcc	taggacatat	ggcatgcatg	gtagaaaatg	aatgtgaaga	3900
ccccagccag	gagactatta	cgttcctcta	taaattcatt	aaggggagctt	gtcctaaaag	3960
ctatggcttt	aatgcagcaa	ggcttgctaa	tctcccagag	gaagttatcc	aaaagggaca	4020
tagaaaagca	agagaatttg	agaagatgaa	tcagtcacta	cgattatttc	gggaagtttg	4080
cctggctagt	gaaaggtcaa	ctgtagatgc	tgaagctgtc	cataaattgc	tgactttgat	4140
taaggaatta	tagactgact	acattggaag	ctttgagttg	acttctgaca	aaggtggtaa	4200
attcagacaa	cattatgatc	taataaactt	tattttttaa	aaat		4244

<210> 251

<211> 2148

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 347314.3

<220>

<221> unsure

<222> 107-160

<223> a, t, c, g, or other

<400> 251

agctcttgga	agacttgagg	ccttggtgct	caggtgggag	ccgacggggg	ctcactccat	60
tgcccaggcc	agagtgcggg	gatatttgat	aagaaacttc	agtgaannnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	tcattggaccg	atctaaagaa	180
aactgcattt	caggacctgt	taaggctaca	gctccagtgt	gaggtccaaa	acgtgttctc	240
gtgactcagc	aatttccttg	tcagaatcca	ttacctgtaa	atagtggcca	ggctcagcgg	300
gtcttggtgc	cttcaaatcc	ttcccagcgc	gttcttttgc	aagcacaaaa	gcttgtctcc	360
agtcacaagc	cggttcagaa	tcagaagcag	aagcaattgc	aggcaaccag	tgtacctcat	420
cctgtctcca	ggccactgaa	taacacccaa	aagagcaagc	agccccctgc	atcggcacct	480
gaaaataaat	ctgaggagga	actggcatca	aaacagaaaa	atgaagaatc	aaaaaagagg	540
cagtgggctt	tggaagactt	tgaaattggt	cgccctctgg	gtaaaggaaa	gtttggtaat	600
gtttatttgg	caagagaaaa	gcaaagcaag	tttattctgg	ctctaaagt	gttattttaa	660
gctcagctgg	agaaagccgg	agtggagcat	cagctcagaa	gagaagtaga	aatacagtcc	720
cacctctcgg	atcctaatat	tcttagactg	tatggttatt	tcattgatgc	taccagagtc	780
tacctaatcc	tggaatatgc	accacttgga	acagtttata	gagaacttca	gaaactttca	840
aagtttgatg	agcagagaac	tgctacttat	ataacagaat	tggaactatc	cctgtcttac	900
tgctattcga	agagagttaa	tcattagagac	attaagccag	agaacttact	tcttggatca	960
gctggagagc	ttaaaattgc	agattttggg	tggtcagtag	atgctccatc	ttccaggagg	1020
accactctct	gtggcacccct	ggactacctg	cccctgaaa	tgattgaagg	tcggatgcat	1080
gatgagaagg	tggtatctctg	gagccttgga	gttctttgct	atgaattttt	agttgggaag	1140
cctccttttg	aggcaaacac	ataccaagag	acctacaaaa	gaatatcacg	ggttgagaat	1200
tcacattccc	tgactttgta	acagagggag	ccagggacct	catttcaaga	ctggtgaagc	1260
ataatcccag	ccagaggcca	atgctcagag	aagtacttga	acacccctgg	atcacagcaa	1320
attcatcaaa	accatcaaat	tgccaaaaca	aagaatcagc	tagcaaacag	tcttaggaat	1380
cgtagcgggg	gagaaatcct	tgagccaggg	ctgccatata	acctgacagg	aacatgctac	1440
tgaagtttat	tttaccattg	actgctgccc	tcaatctaga	acgctacaca	agaaatattt	1500
gttttactca	cgaggtgtgc	cttaacctcc	cttaactcag	agctccacat	caataaacat	1560
gacactctga	agtgaagta	gccacgagaa	ttgtgctact	tatactgggt	cataatctgg	1620
aggcaagggt	cgactgcagc	cgccccgtca	gctgtgctga	ggcatgggtg	cttcacagga	1680
ggcaaatcca	gagcctggct	gtgggggaaag	tgaccactct	gccctgaccc	cgatcagtta	1740
aggagctgtg	caataacctt	cctagtagct	gagtgagtgt	gtaacttatt	gggttgccga	1800
agcctggtaa	agctgttgga	atgagtatgt	gattcttttt	aagtatgaaa	ataaagatat	1860
atgtacagac	ttgtattttt	tctctggtgg	cattccttta	ggaatgctgt	gtgtctgtcc	1920
ggcaccocgg	taggcctgat	tggttttcta	gtcctcctta	accacttatc	tcccatatga	1980

gagtgtgaaa aataggaaca cgtgctctac ctccatttag ggattttgctt gggatacaga 2040
agaggccatg tgtctcagag ctgttaaggg cttatTTTTT taaaacattg gagtcatagc 2100
atgtgtgtaa actttaaata tgcaaataaa taagtatcta tgtctgtg 2148

<210> 252
<211> 2237
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: g3213196

<400> 252
ggaagacttg ggtccttggg tgcgaggtgg gagccgacgg gtgggtagac cgtgggggat 60
atctcagtg cggacgagga cggcggggac aaggggcggc tggtcaggag gccggagcgt 120
caagtccctt gtcggttcc cgcctccctga gtgtccttgg cgctgccttg tgcccgcaca 180
gcgcttttgc atccgctcct gggcaccgag gcgocctgta ggatactgct tgttacttat 240
tacagctaga ggcatcatgg accgatctaa agaaaactgc atttcaggac ctgttaaggc 300
tacagctcca gttggaggtc caaaacgtgt tctcgtgact cagcaaattc cttgtcagaa 360
tccattacct gtaaatagtg gccaggtcca gcgggtcttg tgtccttcaa attcttccca 420
gcgcgttcc tttgcaagcac aaaagcttgt ctccagtcac aagccggttc agaatacaga 480
gcagaagcaa ttgcaggcaa ccagtgatcc tcatcctgtc tccaggccac tgaataaac 540
ccaaaagagc aagcagcccc tgccatcggc acctgaaaat aatcctgagg aggaactggc 600
atcaaaacag aaaaatgaag aatcaaaaaa gaggcagtg gcttttgaag actttgaaat 660
tggtgcctct ctgggtaaag gaaagtgttg taatgtttat ttggcaagag aaaagcaag 720
caagtttatt ctggctctta aagtgttatt taaagctcag ctggagaaag ccggagtgga 780
gcatcagctc agaagagaag tagaaataca gtcccacctt cggcatccta atattcttag 840
actgtatggt tatttccatg atgtctaccag agtctaccta attctggaat atgcaccact 900
tggaacagtt tatagagaac ttcagaaact ttcaaagttt gatgagcaga gaactgctac 960
ttatataaca gaattggcaa atgcctgtc ttactgtcat tcgaagagag ttattcatag 1020
agacattaag ccagagaact tacttcttgg atcagctgga gagcttaaaa ttgcagattt 1080
tgggtgggtc gtacatgctc catcttccag gaggaccact ctctgtggca cctgggacta 1140
cctgccccct gaaatgattg aaggtcggat gcatgatgag aaggtggatc tctggagcct 1200
tggagttctt ttttagttgg gaagcctcct tttgaggcaa acacatacca 1260
agagacctac aaaagaatat cacgggttga attcacattc cctgactttg taacagaggg 1320
agccaggggac ctcatctcaa gactgttgaa gcataatccc agccagaggc caatgctcag 1380
agaagtactt gaacaccctt ggatcacagc aaattcatca aaaccatcaa attgccaaaa 1440
caaagaatca gctagcaaac agtcttagga atcgtgcagg gggagaaatc cttgagccag 1500
ggctgccata taacctgaca ggaacatgct actgaagttt attttaccat tgactgctgc 1560
cctcaatcta gaacgtcaca caagaaatat ttgttttact cagcagggtgt gccttaacct 1620
cctatttcag aaagctccac atcaataaac atgacactct gaagtgaag tagccacgag 1680
aattgtgcta cttatactgg ttcataatct ggagccaagg ttcgactgca gccgcccgct 1740
cagcctgtgc taggcatggt gtcttcacag gaggcaaatc cagagcctgg ctgtggggaa 1800
agtgaacct ctgcctgac cccgatcagt taaggagctg tgcaataacc ttccatgtac 1860
ctgagtgagt gtgtaactta ttgggttggc gaagcctggt aaagctggtg gaatgagtat 1920
gtgattcttt ttaagtatga aaataaagat atatgtacag acttgtattt tttctctggt 1980
ggcattcctt taggaatgct gtgtgtctgt ccggcaccct ggtaggcctg attgggtttc 2040
tagtctcct taaccactta tctcccatat gagagtgtga aaaataggaa cacgtgctct 2100
acctccattt agggatttgc ttgggatata gaagaggcca tgtgtctcag agctgttaag 2160
ggctattttt tttaaaacat tggagtcata gcatgtgtgt aaactttaaa tatgcaata 2220
ataaagtatc tatgtct 2237

<210> 253
<211> 2790
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 245184.3

<400> 253
ctggagcgc cgccttgccc gtgcgtcgt agctcgctcg gtgcgcgtcg tcccgtcca 60
tgccgctctt cgtgcggtcg ctggtctctg ccctggctct ggccctgggc cccgcgcga 120
ccttgccggg tccgcgaag tgcctctacc agctggtgct gcagcacagc aggcctccgg 180
gccgccagca cggcccaaac gtgtgtgct tgcagaaggt tattggcact aataggaagt 240

```
acttcaccaa ctgcaagcag tggtagcaaa ggaaaatctg tggcaaatca acagtcata 300
gctacgagtg ctgtcctgga tatgaaaagg tccctgggga gaagggctgt ccagcagccc 360
taccactctc aaacctttac gagaccttgg gagtcgttgg atccaccacc actcagctgt 420
acacggaccg cacggagaag ctgaggcctg agatggaggg gcccggcagc ttcaccatct 480
tcgcccctag caacgaggcc tgggcctcct tgccagctga agtgctggac tccctgggtca 540
gcaatgtcaa cattgagctg ctcaatgccc tccgctacca tatggtgggc aggcgagctc 600
tgactgatga gctgaaacac ggcatgaccc tcacctctat gtaccagaat tccaacatcc 660
agatccacca ctatcctaata gggattgtaa ctgtgaactg tgcccgctg ctgaaagccg 720
accaccatgc aaccaacggg gtggtgcacc tcctcgataa ggctatctcc accatcacca 780
acaacatcca gcagatcatt gagatcgagg acacctttga gaccttcgg gctgctgttg 840
ctgcatcagg gctcaacacg atgcttgaag gtaacggcca gtacacgctt ttggccccga 900
ccaatgaggg cctcgagaag atccctagtg agactttgaa ccgtatcctg ggcgacccag 960
aagccctgag agacttctg aacaaccaca ccttgaagtc agctatgtgt gctgaagcca 1020
tcgttgcggg gctgtctgta gagaccttgg agggcacgac actggagggt ggctgcagcg 1080
gggacatgct cactatcaac gggaaggcga tcatctccaa taaagacatc ctgaccacca 1140
acggggtgat ccactacatt gatgagctac tcctccaga ctacagccaag acactatttg 1200
aattggctgc agtcttgat gtgtccacag ccttgacct tttcagacaa gccggcctcg 1260
gcaatcatct ctctggaagt gagcggttga cctcctggc tcccctgaat tctgtattca 1320
aagatggaac cctccaatt gatgccata caaggaattt gcttcggaac cacataatta 1380
aagaccagct ggctcttaag tatctgtacc atggacagac cctggaaact ctggggcgga 1440
aaaaactgag agtttttgtt tatcgtaata gcctctgcat tgagaacagc tgcatcgccg 1500
cccacgacaa gagggggagg tacgggaccc tgttcacgat ggaccgggtg ctgaccccc 1560
caatggggac tgtcatggat gtctgaagg gagacaatcg ctttagcatg ctggtagctg 1620
ccatccagtc tgcaaggact acggagaccc tcaaccggga aggagtctac acagtcttcg 1680
ctcccacaaa tgaagccttc cgagccctgc caccaagaga acggagcaga ctcttgggag 1740
atgccaaagg aacttgcaac atcctgaaat accacattgg tgatgaaatc ctgggttagcg 1800
gagcgatcgg ggccctggtg cggctaaagt ctctccaagg tgacaagctg gaagtcagct 1860
tgaaaaacaa tgtggtgagt gtcaacaagg agcctgttgc cgagcctgac atcatggggc 1920
acaaatggcg tggctcatgt catcaccaat gttctgcagc ctccagccaa cagacctcag 1980
gaaagagggg atgaacttgc agactctgc cttgagatct tcaaaacaagc atcagcgttt 2040
tccagggtct ccagagggtc tgtgcgacta gccctgtct atcaaaagtt attagagagg 2100
atgaagcatt agcttgaagc actacaggag gaatgcacca cggcagctct ccgccaattt 2160
ctctcagatt tccacagaga ctgtttgaat gttttcaaaa ccaagtatca cactttaatg 2220
tacatgggac gcaccataat gagatgtgag ccttgtgcat gtgggggagg agggagagag 2280
atgtactttt taaatcatgt tccccctaaa catggctgtt aacctactgc atgcagaaac 2340
ttgatgttca ctgctgaca ttcacttcca gagaggacct atcccaaatg tggaaattgac 2400
tgctatgccc aagtccttgg aaaggagct cagtatgtgt ggggtcata aaacatgaat 2460
caagcaatcc atcattataa gtagtcttgg caagttttt gtaaagccct tgacagctg 2520
gagaaatggc atcattataa gtagtcttgg caagttttt gtaaagccct tgacagctg 2580
acagctggct tggaggcttt tatggggccc tgtccaggta gaaatgttct gtcaaatgtg 2640
gcttagattt cctattgtg acagagccat ggtgtgtttg gaaatgttct gaaatgttct 2700
cataaagcc tccaagcaac gtgtagatgt gagacacatt tgacagaaca tctcaactca 2760
tagcttataa tgatgccatt tctccagctg tctccagctg 2790
```

<210> 254

<211> 836

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 243574.11

<400> 254

```
gtcctgcctg aaggcggggg tggaccagat gatctttctt gggccctggg cctagattcg 60
aggtccccag ggtccaagtc ctgggttcag agggcggggc gcgaggggag gtgtctccaa 120
ggggcggggg cccggggtcc ctgaaaggcg cggaccaggc cggatccacc cagtctcgcg 180
cctgcagccc gtgcgcccc agcgcgtgcc gcctgcaccg gaccgggagc cgccatgccc 240
aagtgtccca agtgcaaaa ggaggtgtac ttgcgcgaga ggggtgacct ctctgggcaa 300
ggactggcat cggcctgcc tgaagtgcga caaatgtggg aagacgctga cctctggggg 360
ccacgctgag cacgaaggca aacctactg caaccacccc tgctacgtag ccatgttttg 420
gcctaaaggc tttggcgggg gcggagccga gageccacct tccaagtaaa ccagggtggg 480
gagaccccat ccttggctgc ttgcagggcc actgtccagg caaatgccag gccttgtccc 540
cagatgcccc gggcctcctt gttgcccta atgtctcag taaacctgaa cactgggggg 600
cacgctgagc acgaaggcaa accctactgc aaccacccc gctacgcagc catgtttggg 660
cctaaaggct ttggcgggg cggagccgag ageccacctt tcaagtaaac caggtgtgtg 720
agaccccatc cttggctgct tgcaggggca ctgtccaggc aaatgccagg ccttgtcccc 780
```

agatgccag ggctcccttg ttgccctaa tgctctcagt aaacctgaac acttgg 836

<210> 255

<211> 5991

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 474826.6

<400> 255

ccggccccg	gacgcgagg	ggctgccagg	ggcgtccgg	tacatcccc	ccttcctctg	60
tcctggccg	gggaccggg	ttgcgggacc	gcagttccgg	aacatgttgg	cctcgagcag	120
ccggatccg	gtcgcgtgga	cgcgggcgct	gctgctgcg	ctgctgctgg	cggggcctgt	180
gggtgcctg	agccgccagg	agctctttcc	cttcggcccc	ggacaggggg	acctggagct	240
ggaggacgg	gatgacttcg	tctctcctgc	cctggagctg	agtggggcgc	tcogcttcta	300
cgacagatcc	gacatcgacg	cagtctacgt	caccacaaat	ggcatcattg	ctacgagtga	360
acccccggcc	aaagaatccc	atccccgggt	cttcccacca	acattcggtg	cagtcgcccc	420
tttctggcg	gacttggaca	cgaccgatgg	cctggggaa	gtttattatc	gagaagactt	480
atccccctcc	atcactcagc	gagcagcaga	gtgtgtccac	agagggttcc	cggagatctc	540
tttccagcct	gttagcgcg	tggtgtgac	ttgggaatcc	gtggccccct	accaagggcc	600
cagcagggac	ccagaccaga	aaggcaagag	aaacacgttc	caggctgttc	tagcctctct	660
tgattccagc	tcctatgcc	ttttccttta	tcctgaggat	ggctctgcag	tcacatcgac	720
attctcaaa	aaggaataa	accaagttcc	tgccgtgggt	gcattcagtc	aagggttcagt	780
gggattcttta	tgaagagca	acggagctta	taacataatt	gctaataaca	gggaatcaat	840
tgaataattg	gccaagagta	gtaactctgg	gcagcaggg	gtctgggtgt	ttgagattgg	900
gagtcagcc	accaccaatg	gcgtgtgtcc	tgacagctg	atcctcggaa	ctgaagatgg	960
ggcagagtat	gatgatgagg	atgaagatta	tgacctggcg	accactcgtc	tgggcctgga	1020
ggatgtgggc	accacgcct	tctctacaa	ggctctgaga	aggggaggtg	ctgacacata	1080
cagtgtgccc	agcgtcctct	ccccgcgcg	ggcagctacc	gaaaggcccc	ttggacctcc	1140
cacagagaga	accaggtctt	tcagttggc	agtggagact	tttaccagc	agcaccctca	1200
ggtcatagat	gtggatgaag	ttgaggaaac	aggagtgtt	ttcagctata	acacggattc	1260
ccgcccagc	tgtgctaaca	acagacacca	gtgctcgtg	cagcagagt	gcagggacta	1320
cgccacgggc	gctgtgtcgc	tggtatacgc	ggcaatggca	ggcaatgtgt	ggcaatgtgt	1380
tgagaaggt	ccccccagc	gagtcaatgg	caaggtgaaa	ggaaggatct	ttgtggggag	1440
cagccaggtc	ccatttgtct	ttgagaacac	tgacctccac	tcttacgtag	taatgaacca	1500
cgggcgtctc	tacacagcca	tcagcaccat	tcccagagcc	gttgatatt	ctctgcttcc	1560
actggcccc	gttggaggca	gattgtttga	gtggagcagg	gtggagcagg	acggattcaa	1620
gaatgggttc	agcatcaccg	gggtgtgagt	cactcgccag	gctgaggtga	ccttcgtggg	1680
gcaccggggc	aatctgggtc	ttaagcagcg	gttcagcggc	atcgatgagc	atgggcacct	1740
gaccatcgac	acggagctgg	agggcccgct	gccgcagatt	ccgttcggct	cctccgtgca	1800
cttgagcccc	tgtaaccact	ctccacctca	gtgatcactt	cctcctccac	cctcctccac	1860
ccgggagtag	acggtgactg	agcccgagcg	agatggggca	tctccttcac	gcattctacac	1920
ttaccagtgg	cgcagacca	tcaccttcca	ggaatgcgtc	cacgatgact	cccgccagc	1980
cctgcccagc	accagcagc	tctcggtgga	cagcgtgttc	gtcctgtaca	accaggagga	2040
gaagatcttg	cgtatgctc	tcagcaactc	cattgggcct	gtgagggaag	gctcccctga	2100
tgctcttcag	aatccctgct	acatcggcac	tcattgggtg	gacaccaacg	cggcctgtcg	2160
ccctggtccc	aggacacagt	tcacctgcga	gtgctccatc	ggcttcagag	gagacggggc	2220
aacctgctat	gataattgat	aatgttcaga	acaacctca	gtgtgtggga	gccacacaat	2280
ctgcaataat	caccaggaa	ccttcgctg	cgagtgtgtg	gagggtacc	agttttcaga	2340
tgagggaacg	tgtgtggctg	tcgtggacca	gcgccccatc	aactactgtg	aaactggcct	2400
tcataactgc	gacatacccc	agcgggcccc	gtgtatctac	acaggaggtc	cctcctacac	2460
ctgttcctgc	ttgccaggtc	tttctgggga	tgcccaagcc	tgccaagatg	tagatgaatg	2520
ccagccaagc	cgatgtcacc	ctgacgcctt	ctgctacaac	actccaggtc	ctttcacgtg	2580
ccagtgcaaa	cctgggttatc	agggagacgg	cttccgttgc	gtgcccggag	aggtggagaa	2640
aaccgggtgc	cagcacgagc	gagaacacat	tctcggggca	gcggggggca	cagaccacac	2700
gcgaccatt	cctccggggc	tggtcgttcc	tgagtgcgat	gcgcacgggc	actacgcgcc	2760
caccagtgcc	cacggcagca	ccggctactg	ctgggtgcgtg	gatcgcgagc	gccgcgaggt	2820
ggagggcacc	aggaccaggc	ccgggatgac	gcccccgtgt	ctgagtacag	tggtctcccc	2880
gattcaccaa	ggacctggcg	tgccctaccg	cgtgatcccc	ttgcctcctg	ggacctattt	2940
actctttgcc	cagactggga	agattgagcg	cctgccccctg	gagggaaata	ccatgaggaa	3000
gacagaagca	aagggcgttc	ttcatgtccc	ggctaaagtc	atcattggac	tggtctttga	3060
ctgcgtggac	aagatgggtt	actggacgga	catcactgag	ccttccattg	ggagagctag	3120
tctacatggt	ggagagccaa	ccaccatcat	tagacaagat	cttggaagtc	cagaaggtat	3180
cgctgttgat	caccttggcc	gcaacatctt	ctggacagac	tctaacctgg	atcgaataga	3240
agtggcgaag	ctggacggca	cgcagcgccg	ggtgctcttt	gagactgact	tggtgaatcc	3300

```

cagaggcatt gtaacggatt ccgtgagagg gaacctttac tggacagact ggaacagaga 3360
taaccccaag attgaaactt cctacatgga cggcacgaac cggaggatcc ttgtgcagga 3420
tgacctgggc ttgccaatg gactgacctt cgatgcgttc tcatctcagc tctgctgggt 3480
ggatgcaggc accaatcggg cggaatgcct gaacccagc cagcccagca gacgcaaggc 3540
tctcgaaggc ctccagatc cttttgctgt gacgagctac gggaagaatc tgtatttcac 3600
agactggaag atgaattccg tggttgctct cgatcttgca atttccaagg agacggatgc 3660
tttccaaccc cacaagcaga cccggctgta tggcatcacc acggccctgt ctcagtgtcc 3720
gcaaggccat aactactgct cagtgaacaa tggcggctgc accacctat gcttggccac 3780
cccagggagc aggacctgcc ttgcccctga caacacctg ggagttgact gtatcgaaca 3840
gaaatgaaga caagagtgc ttttttctt tccaagtatt tcacagcaac actctacttg 3900
aagcaacttg gtccagattg aaaagtgtcc tctggctgag tggccactag gccagagacc 3960
agcccagcct gagcccaaac aacaactttt cctcactgt tccccaaaac atgcaccctg 4020
gactctctta atagaaaagt tccaccctga cacaaggaca gaacctcca cccctaccac 4080
caaccctcag acagacttat acaccctga gtgaggatta catgccatc ccagtgtcct 4140
aggacctttt cccaatacta gccccccagt ggtgaacaga acctccaaa tttgagttgc 4200
accttccctt gtggccttat gagctcagcc tcgctttgag gtacccaccg tctgtcagc 4260
tccttgacct atgacccggg gctgactag gaaaagtgg gagttaagga ggaaattagc 4320
attccttaat gttttgtttt ggtgctctga atttcttctt tattatagtc ctatagtttt 4380
actcctcagt tctcaccat catcatcttg tctaagacc ccattataat attcatgcgc 4440
tgctttttca tcaaaacctt cctgtccta gagatctatg ggcatttggg ggtgataaat 4500
gagcagcccc tccagatag aatgtcaata tttgagcagt aggatattgg catttgtag 4560
ttaaaggctt aaatcaaac aatgtccaat ggtaggaatt tcaagggtga ggtcagatat 4620
ttgagaatag gggatttttt tgatgtgcct taaattatac caaagattac taattattcc 4680
tctttgcccc aaatacttgc atccaagggt ctagtctctg ttgctgtgct ggtcttttagc 4740
cccactgctt gcactgatgt cctctctttt cccggagacc tatctgaggt acaggatggg 4800
gctggcacca gatgatgtcc caccacagtc cctcacctcc ggctccaca tgacagaacc 4860
aatttacact caaccatgac ctcaccctc cttggtttct ccctcgatct gtggcccttt 4920
ttggatgtat tcttatctaa caacacaatc cggaaagact gaattgaata tttatactaa 4980
tggttcatat cctttattgc tcaatgatct aattaaaggg atcattgcca catttcatgt 5040
ttatatctct acaatttgtt tagaaaacat ctctgacca tatcagtagc tcgtgttatc 5100
tttttatcaa ctgcttccca ggcctcctaa acaatagaaa ttttggattg aaaagttcag 5160
cataaggagt ttgagtacgt aaaggatggg ataaaggaat cgagatgatt caatgaaaag 5220
tatcacaaaa aaagagattg atcaacaaga gaaataaaaa agcccaagag gaagtggtag 5280
gggaagggaat ttaagaagaa caataagtaa aactcttaag taactccaaa aagaaaatgg 5340
tacattttgc caaagaccac ttatacttga gaactggaa gaatttgcct gatactctct 5400
ttggggaaaa gagtctctcc tcttttctc aaacccagc acactcagcc tctctgcccc 5460
accttctcct gactttgtcc tcaacttgct ctgcagtaca ttggaacctg aattgaaaga 5520
aagtctcctt tgaataattg gagtttgtct tgagaggcaa atatagcccc aagaatcaca 5580
agattcgagg accatgtagg tcttttactg agcccaaatc cataaattag tctcactttt 5640
tgtatttatc gtttcatatt aaacctctta tatcaaatgt tcatcatgat tttgtatgat 5700
ttttataact attttattca ttttattaga tttattctaa aattttttta tggtaaaattc 5760
ttaaactgtg gaaaccactg aagggtgctt ttaactgttc tccagatttt gtacaagtat 5820
tggatgattc cttgagttta cagctgtaca aatagttgg gcagaaccca gggcatgaag 5880
atccaaaagg gcctggttca gcttttctc cagggccatg gcagctttca tggcgtctgg 5940
ggttttacct cactcatctt cagctggctt cttgatgtcc tgggaagagag c 5991

```

<210> 256
 <211> 2889
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 997347.6

```

<400> 256
ctggcaggcg tcgggacggg cgggcccggc ccgcccggcc cttcccctcc acaggccgc 60
cccggggcct gggccaactg aaaccgcggg aggaggaagc gcggaatcag gaactggccg 120
gggtccgcac cgggctgtag tcgggtccgag gccgtcccag gagcagctgc ccgtgcggaa 180
cagcactatg gcttctctt ctgagctgtg cagccccag ggccacgggg tccgtcagca 240
aatgcaggag gccgagcttc gtctactgga gggcatgaga aagtggatgg cccagcgggt 300
caagagtgac agggagtatg caggactgct tcaccacatg tcctgcagg acagtggggg 360
ccagagccgg gccatcagcc ctgacagccc catcagtcag tcttgggctg agatcaccag 420
ccaaactgag ggcctgagc cgcttgcctg ggcagcacgc agaggatctg aactcagggc 480
ccctgagcaa gctgagcctg ctcatcggg aacggcagca gcttcgcaag acctacagcg 540
agcagtggca gcagctgcag caggagctca ccaagacca cagccaggac attgagaagc 600
tgaagagcca gtaccgagct ctggcacggg acagtgccca agccaagcgc aagtaccagg 660

```

```

agggcagcaa agacaaggac cgtgacaagg ccaaggacaa gtatgtacgc agcctgtgga 720
agctctttgc tcaccacaac cgctatgtgc tgggctgtgc ggctgcgcag ctacaccacc 780
agcaccacca ccagctcctg ctgcccggcc tgctgcggtc actgcaggac ctgcacgagg 840
agatggcttg catcctgaag gagatcctgc aggaatacct ggagattagc agcctgggtg 900
aggatgagggt ggtggccatt caccgggaga tggctgcagc tgetgcccgc atccagcctg 960
aggctgagta ccaaggcttc ctgcgacagt atgggtccgc acctgacgtc ccacctgtg 1020
tcacgttcga tgagtactg cttgaggagg gtgaaccgct ggagcctggg gagctccagc 1080
tgaacgagct gactgtggag agcgtgcagc acacgctgac ctacgtgaca gatgagctgg 1140
ctgtggccac cgagatgggt ttcaggcggc aggagatggt tacgcagctg caacaggagg 1200
tccggaatga agaggagaac acccaccccc gggagcggtg gcagctgctg ggcaaggagg 1260
aagtgtgca agaagcactg caggggctgc aggtagcgct gtgcagccag gccaaagctg 1320
aggcccagca ggagtgtctg cagaccaagc tggagcacct gggccccggc gagccccgcg 1380
ctgtgtctgct cctgcaggat gaccgccact ccacgtcgct ctggagcag gagcgagagg 1440
ggggaaggac accccagctg gagatcctta agagccacat ctccaggatc ttccgcccc 1500
agttctcgct ccctccaccg ctgcagctca ttccggaggt gcagaagccc ctgcatgagc 1560
agctgtggta ccacggggcc atccccaggg cagaggtggc tgagctgctg gtgcatctct 1620
gggacttctt ggtgcggggg agccagggca agcaggagta cgtgctgtcg gtgctgtggg 1680
atggtctgcc cgggcacttc atcatccagt ccttgataaa cctgtaccga ctgggaaggg 1740
aaggctttcc tagcattcct ttgctcatcg accacctact gagcaccag cagccccctc 1800
ccagaagag tggtgttgtc ctgcacaggg ctgtgcccac ggacaagtgg gtgctgaacc 1860
atgaggacct ggtgttgggt gagcagattg gacgggggaa ctttggcgaa gtgttcagcg 1920
gacgctcgcg agccgacaac accctggtgg cgggtgaagtc ttgtcgagag acgctccac 1980
ctgacctcaa ggccaagttt ctacaggaag cgaggatcct gaagcagtag agccacccca 2040
acatcgctgc tctcattggt gtctgcaccc agaagcagcc catctacatc gtcatggagc 2100
ttgtgcaggg gggcgacttc ctgaccttcc tccgcacgga gggggcccgc ctgcggttga 2160
agactctgct gcagatgggt ggggatgcag ctgctggcat ggagtaacct gagagcaagt 2220
gtctcatcca ccgggacctg gctgctcgga actgcctggt gacagagaag aatgtcctga 2280
agatcagtga ctttgggatg tcccgagagg aagccgatgg ggtctatgca gcctcagggg 2340
gcctcagaca agtcccctg aagtggaccg cacctgaggc ccttaactac ggcgctact 2400
cctccgaaa gacgtgttg agctttggca tcttgtctcg ggagacctc agcctggggg 2460
cctccccca tcccaacctc agcaatcagc agacacggga gtttgtggag aagggggggg 2520
gtctgcccctg ccagagctg tgtcctgatg ccgtgttcag gctcatggag cagtgttggg 2580
cctatgagcc tgggcagcgg ccagcttca gcaccatcta ccaggagctg cagagcatcc 2640
gaaagcggca tcggtgaggg tgggaccccc ttctcaagct ggtggcctct gcaggcctag 2700
gtgcagctcc tcagcggctc cagctcatat ctgcacagct cttcacagtc ctggactcct 2760
gccaccagca tccacactgc cggcaggatg cagcgccgtg tctctctgtg gtccctgtct 2820
ctgccagggc ttctctctcc gggcagaaac aataaaacca cttgtgcccc ctgaaaaaaa 2880
aaaaaaagg

```

<210> 257

<211> 1678

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 222049.1

<400> 257

```

cgggaaggcg aaggacgcgc gttccccggc tcgtgaccgc cagcggcccc gggaacccgc 60
tcccagacag actcggagag atggcaggcg gaagacaccg gcgcgtcgtg ggcaccctcc 120
acctgctgct gctggtgggc gccctgccct gggcatccag gggggtcagt ccgagtgcct 180
cagcctggcc agaggagaag aattaccacc agccagccat tttgaattca tcggctcttc 240
ggcaaatgtc agaaggcacc agtatctctg aaatgtggca aaatgactta cagccattgc 300
tgatagagcg ataccgggga tcccctggaa gctatgctgc tcgtcagcac atcatgcagc 360
gaattcagag gcttcaggct gactgggtct tggaaataga cacttctttg agtcagacac 420
cctatgggta ccggtctttc tcaaatatca tcagcaccct caatcccact gctaaacgac 480
atttggctct cgcctgccac tatgactcca agtatTTTTT ccaactggaac aacagagtgt 540
ttgtaggagc cactgattca gccgtgccat gtgcaatgat gttggaactt gctcgtgcct 600
tagacaagaa actcccttcc ttaaagactg ttctcagact caagccagat ttgtcactcc 660
agctgatctt cttttagtgt gaaaggctt ttcttcactg gtctctctca gattctctct 720
atgggtctcg acacttagct gcaaagatgg catcgacccc gcacccacct ggagcgagag 780
gcaccagcca actgcatggc atggatttat tgggtcttatt ggatttgatt ggagctccaa 840
acccaacgtt tcccaatttt ttccaaact cagccagggt gttcgaagaa cttcaagcaa 900
ttgaacatga acttcatgaa ttgggtttgc tcaaggatca ctcttggag gggcggtatt 960
tccagaatta cagttagtga ggtgtgattc aggatgacca tattccattt ttaagaagag 1020
gtgttccagt tctgcatctg ataccgtctc ctttccctga agtctggcac accatggatg 1080

```



```

acaatgaaga aaatttggat gaatcaacca ttgacaatct aaacaaaatc ctacaagtct 1140
ttgtgttggg atatcttcat ttgtaatact ctgatttagt ttaggataat tgggtctaga 1200
attgaattca aaagtcaagg catcatttaa aataatctga ttccagacaa atgctgtgtg 1260
gaaacatcta tcctatagat catcctattc ttatgtgtct ttggttatca gatcaattac 1320
agaaataattg tgtgttgata ttgtgtccta aattgtctcat taatttttat ttacagattg 1380
aaaaagaggg accgtgtaaa gaaaatggaa aataaataatc ttcaaagac tcttttagat 1440
aaacacgatg aggcaaaatc aggttcattc attcaacgat agtttctaaa cagtacttaa 1500
atagcgggttg gaaaacgtag ccttcatttt atgatttttt catatgtgga aatctattac 1560
atgtaataca aaacaaacat gtagtttgaa ggcggtcaga tttcttttgag aaatctttgt 1620
agagttaatt ttatggaaat taaaatcaga attaatgctt aaaaaaaaaa aaaaaaag 1678

```

<210> 258

<211> 911

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 902659.8

<220>

<221> unsure

<222> 871

<223> a, t, c, g, or other

<400> 258

```

gtgtgcatgt gtatatatgt gtgtgtgcat gcatgtgtgt gtgcgacgc atgtgtgtgt 60
gcatgtgtgt gtgtgtgctg aggcactggg agctggctct ccttctggca ggctctaaat 120
gagcagggcc acagaccac agtccagccc catggggctc tgcaggccta gaggttagagg 180
gcctgctaga aacagaaggc taaacaaaag gctggcctgc tcaccctcac cggagtccct 240
cttcctagga aaactgcctt atttggaaga caaaagctca tttgttgtct catccccacc 300
caggagagaa ggggccactc cccgaagatt cctcttgttt ccacatagag attcctcacc 360
tggatcatgt catatatattg gcttttattt gatcatcact gctcacttta agagcagggt 420
ttcgatctgt gagcccgagg agtatgcacc atgagcaaag ctaccctcc cgagctgaaa 480
aaatttatgg acaagaagtt atcattgaaa ttaaatgggt gcagacatgt ccaaggaata 540
ttgcggggat ttgatccctt tatgaacctt gtgatagatg aatgtgtgga aatggcgact 600
agtggacaac agaacaatat tggaaatgggt gtaatatgag gaaatagtat catcatgtta 660
gaagccttgg aatgagtata aataatggct ggtcagcaga gaaacccatg ctctctctcc 720
ataggtcctg ttttactatg atgtaaaaat taggtcatgt acattttcat attagacttt 780
ttgttaataa aacttttgta atagtcaaaa atgctttctc agatgttctg aatatagaat 840
atcagctctc attccagttt ttttctaaca ngaattttcc tggttgacat tgatttcaaa 900
gggttttatg c

```

<210> 259

<211> 2716

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2508261

<220>

<221> unsure

<222> 966

<223> a, t, c, g, or other

<400> 259

```

ggcaatagca gaataggagc aagccagcac tagtcagcta actaagtgac tcaaccaagg 60
ccttttttcc ttgttatctt tgcagatact tcattttctt agcgtttctg gagattacaa 120
catcctgagg ttccgtttct gggaacttta ctgatttatc tccccctca cacaaataag 180
cattgattcc tgcattctct aagatctcaa gatctggact actgttgaaa aaatttccag 240
tgaggctcac ttatgtctgt aaagatggga aaaaaataca agaacattgt tctactaaaa 300
ggattagagg tcatcaatga ttatcatttt agaattggta agtccttact gagcaacgat 360
ttaaaaacta atttaaaaat gagagaagag tatgacaaaa ttcagattgc tgacttgatg 420
gaagaaaagt tccgaggtga tgctggtttg ggcaacttaa taaaaatttt cgaagatata 480
ccaacgcttg aagacctggc tgaaactctt aaaaaagaca agttaaaagt aaaaggacca 540

```



```

gccctatcaa gaaagaggaa gaaggaagtg gatgctactt cacctgcacc ctccacaage 600
agcactgtca aaactgaagg agcagaggca actcctggag ctcagaaccc gaaaacagtg 660
gccaaatgtc aggtaactcc cagaagaaat gttctccaaa aacgcccagt gatagtgaag 720
gtactgagta caacaaagcc atttgaatat gagaccccag aaatggagaa aaaaataatg 780
tttcatgcta cagtggctac acagacacag ttcttccatg tgaaggtttt aaacaccagc 840
ttgaaggaga aattcaatgg aaagaaaatc atcatcatat cagattatgtt ggaatatgat 900
agtctcctag aggtcaatga agaactact gtatctgaag ctggtcctaa ccaaactgtt 960
gagggtccca aataaaatca tcaacagagc aaaggaaact ctgaagattg atattcttca 1020
caacaagct tcaggaaata ttgtatatgg ggtatttatg ctacataaga aaacagtaaa 1080
tcagaagacc acaatctacg aaattcagga tgatagagga aaaatggatg tagtggggac 1140
aggacaatgt cacaatatcc cctgtgaaga aggagataag ctccaacttt tctgtcttcg 1200
acttagaaaa aagaaccaga tgtcaaaact gatttcagaa atgcatagtt ttatccagat 1260
aaagaaaaaa caaaacccga gaaacaatga cccaagagc atgaagctac ccaggggaa 1320
agagtcagct tccaaatcct tcagaggcca gcacaacctt cctgagagc catcttcgga 1380
ctctcagat gccaccaaca actccatcca gcagtttctt caccaagaaa agtgaagaca 1440
caatctccaa aatgaatgac ttcatgagga tgcagatact gaaggaaggg agtcattttc 1500
caggaccgtt catgaccagc ataggcccag ctgagagcca tcccacact cctcagatgc 1560
ctccatcaac accaagcagc agtttcttaa ccacggtaca aaaaagtga gacacaatct 1620
ccaaatgaa tgacttcatg aggatgcaga tactgaagga agggagtcac ttccaggac 1680
cgttcatgac cagcataggg ccagctgaga gccatcccca cactcctcag atgcctccat 1740
caacaccaag caggagtctt ttaaccacgt tgaaaaccaag actgaagact gaacctgaag 1800
aagtttccat agaagacagt gccagagtg acctcaaaga agtgatgggt ctgaacgcaa 1860
cagaatcatt tgtatatgag cccaaagagc agaagaaaat gtttcatgcc acagtggcaa 1920
ctgagaatga agtcttccga gtgaaggttt ttaatatgta cctaaaggag aagttcacc 1980
caaagaagat cattgccata gcaaatatg tttgccgcaa tgggttccct gaggtatata 2040
ctttcacact tgtggtgat gtgaatgctg accgaaacat ggagatccca aaaggattga 2100
ttagaagtgc cagcgttaact cctaaaatca atcagctttg ctcaaaaact aaaggaagtt 2160
ttgtgaatgg ggtgtttgag gtacataaga aaaatgtaag ggggtgaattc acttattatg 2220
aaatacaaga taatacaggg aagatggaag tgggtggtgca tggacgactg accacaatca 2280
actgtgagga agggagataa ctgaaactca cctgctttga attggcaccg aaaagtggga 2340
ataccgggga gttgagatct gtaattcata gtcacatcaa ggtcatcaag accaggaaaa 2400
acaagaaaga catactcaat cctgattcaa gtatggaaac ttcaccagac tttttcttct 2460
aaaaatctgga tgtcattgac gataatgttt atggagataa ggtctaagtg cctaaaaaaa 2520
tgtacatata cctggttgaa atacaacact accaccatat atactagctg 2580
ttaatcctat ggaatggggg atttgggagtg cttttttaat ttttcatagt ttttttttaa 2640
taaaatggca tattttgcat ctacaacttc tataatttga aaaaataaat aaacattatc 2700
ttttttgtga aaaaaa 2716

```

<210> 260

<211> 2882

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 232945.12

<400> 260

```

gaattcgggc agattagacc ctggctctac actcttagcc gctgcctgct tttgaccttt 60
ggtcatggg tacttgacgt tttaaactcc taggcccagg atgaggagga gcttggtctc 120
cagccagctg gccaaagagaa aacctgaagg caggtcctgt gatgatgaag actggcaacc 180
tgccctagtg actcctagga aacggaaatc cagcagtgag acccagatcc aggagtgttt 240
cctgtctcct tttcggaaac ctttgagtca gctaaccaat caaccacctt gtctggacag 300
cagtcagcat gaagcattta ttggaagcat tttgtcaaag cctttcaaag tccccattcc 360
aaattatcaa ggtcctctgg gctctcgagc attgggctg aaaagggtc ggtccgctg 420
ggcctccat gaccccttg aaaaagatgc cttggttctg tatgagcctc cccgctgag 480
cgctcatgac cagctgaagc ttgacaagga gaaactccct gtccatgtgg ttgttgacct 540
tattctcagt aaggttttgc ggcctcatca gagagaggga gtgaaattcc tgtgggagtg 600
tgtcaccagt cggcgcatcc ctggcagcca tggctgcate atggctgatg agatgggctc 660
aggaaagacg ctgcagtga tcacattgat ttggacactt ttacgccaga gtccagatg 720
caagccagaa attgacaagg cagtgggtgt gtcgccttcc agcctggtga agaactggta 780
caatgaggtt gggaaatggc tcggaggagg gatccaacct ctggccatcg atggaggatc 840
taaggatgaa atagaccaa agctggaagg attcatgaac cagcgtggag ccagggtgtc 900
ttctccatc ctcacattt cctatgagac cttcgcctt catgttggag tctccagaa 960
aggaagtgtt ggtctggtca tatgtgacga gggcacagc ctcaagaact ctgagaatca 1020
gacttaccaa gccctggaca gcttgaacac cagccggcgg gtgctcatct ccggaactcc 1080
catccagaat gatctgcttg agtatttcag cttggtacat tttgttaatt ccggcatcct 1140

```

```

agggactgcc catgaattca agaagcattt tgaattgcc aatttgaagg gtcgagacgc 1200
tgtctgctagt gaggcagaca ggcagctagg agaggagcgg ctgcggggagc tcaccagcat 1260
tgtgaataga tgccctgatac ggaggacttc tgatatcctt tctaaatatac tgccctgtgaa 1320
gatttgagcag gtctgtttgtt gttagctgac accccttcag actgagttat acaagagggtt 1380
tctgagacaa gccaaaccgg cagaagaatt gcttgagggc aagatgagtg tgtcttccct 1440
ttcttccatc acctogctaa agaagctttg taatcatcca gctctaatac atgataagtg 1500
tgtggaagag gaggatggct ttgtgggtgc cttggacctc ttccctcctg gttacagctc 1560
taaggccctg gagcccccgc tgtcaggtaa gatgetggtc ctggattata ttctggcggt 1620
gaaccgaagc cgtagcagtg acaaagtagt gctgggtgcg aattacaccc agacttttga 1680
tctctttgag aagctgtgcc gtgcccgaag gtacttatac gtccgcctgg atggcacgat 1740
gtccattaag aagcgagcca aggttgtaga acgcttcaat agtccatcga gccctgactt 1800
tgtcttcctg ctgagcagca aagctggggg ctgtggcctc aatctcattg gggctaaccg 1860
gtctgtgaagc tttgacctg actggaaccc agccaatgat gaacaagcca tggcccggtt 1920
ctggcgagat ggtcaaaaga agacttgcta tatctaccgc ctgctgtctg caggggacct 1980
tgaggagaag atcttccagc gtcagagcca caagaaggca ctgagccagc tgtgtgtgtg 2040
atgaggagca ggatgtagag cgccacttct ctctgggcga gttgaaggag ctgtttatcc 2100
tggtatgaag tagcctcagt gacacacatg acaggttgca ctgccgacgt tgtgtcaaca 2160
gccgtcagat ccggccaccc cctgatggtt ctgactgcac ttcagacctg gcagggttga 2220
accactgcac tgataagtgg gggctccggg atgagggtact ccaggctgcc tgggatgctg 2280
cctccactgc tatcaccttc gtcttccacc agcgttctca tgaggagcag cggggcctcc 2340
gtcgataacc agctggctgc ggtgtagctc tttagaggaa gagataggga aaaggggctc 2400
cttgtctcac agggccctgt tgaattttgt tctctgggag aaaatcatca agaagggtct 2460
catgatgttt gcccaaaatt tatttataa gaaaaacttt tttggttaaa aaaaagaata 2520
aagggtatgaa agggtttgag gcctgagagc agtgtgtgtaa gccagcaggy gaagaagccc 2580
cctatacttc cctaaagcct ggggtgcctgc ttgaggaggy aaggcaggaa cccagggggc 2640
ggggaggggga tctcttcagc aattatgatg accactgtaa cctcccctgc cctgggttc 2700
ctgccttccc tctcaagca ggcaccagg ctttagagaa gtataggggg gcttcttccc 2760
tgtctgggctt accacactgc tctcaggcct caaacctttt cataccttta ttcttttttt 2820
taacaaaaaa agtttttctt ataaaaataa ttttgggcaa acatcaaaaa aaaaaaaaaa 2880
gg

```

<210> 261

<211> 1335

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 445101.8

<400> 261

```

gtcgcaacgc ggcgcagggt gagagcgcgc gcttgccgac gggcgccgat taaacgggtg 60
caggcgtagc agagtgggtcg ttgtctttct aggtctcagc cggctgcctc gacgttcgcc 120
cgctcgtctc gaggtcctctg aagccgaaac cagctagact ttctctcttc ccgctgcct 180
gtagcggcgt tgttgccact ccgccaccat gttcgaggcg cgccctggtc aggggtccat 240
cctcaagaag gtgttgaggg cactcaagga cctcatcaac gaggcctgct gggatattag 300
ctccagcggt gtaaaccctgc agagcatgga ctctctccac gtctcttttg tgcagctcac 360
cctgcggctc gagggcttcg acacctaccg ctgcgaccgc aacctggcca tgggcgtgaa 420
cctcaccagt atgtccaaaa tactaaaaatg cgccggcaat gaagatatca ttacactaag 480
ggccgaagat aacgcggata ccttggggcg tagtatttga agcaccaaac caggagaaag 540
tttcagacta tgaaatgaag ttgatggatt tagatgttga acaacttggg attccagaac 600
aggagtacag ctgtgtagta aagatgcctt ctgggtgaatt tgcacgtata tgccgagatc 660
tcagccatat tggagatgct gttgtaatat cctgtgcaaa agacggagtg aaattttctg 720
caagtggaga acttggaat ggaaacatta aattgtcaca gacaagtaat gtcgataaag 780
aggaggaagc tgtaaccata gagatgaatg aaccagttca actaactttt gcactgaggt 840
acctgaactt ctttcaaaaa gccactccac tctcttcaac ggtgacactc agtatgtctg 900
cagatgtacc cctgttgta gagtataaaa ttgcccgatg gggacactta aaatactact 960
tggctcccaa gatcgaggat gaagaaggat cttaggcatt cttaaaattc aagaaaataa 1020
aactaagctc tttgagaact gcttctaaga tgccagcata tactgaagtc ttttctgtca 1080
ccaaatttgt acctctaagt acatatgtag atattgtttt ctgtaaatata cctatttttt 1140
tctctattct ctgcaatttg tttaaagaat aaagtccaaa gtcagatctg gtctagttaa 1200
cctagaagta tttttgtctc ttagaaatag ttgtgatttt tataatacaa aaggggtctg 1260
actctaaatg cagtttttaag aattgttttt gaattttaat aaagttactt gaatttcaaa 1320
catcaaaaaa aaaaa

```

<210> 262

<211> 531

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 255750.1

<400> 262
cgacaaaacg gaaagagcgg gcgcggtgcg caggggcccgg cggccagcgg gcttggcatg 60
cgcgcccccg cccgaggcta taaaagcatc gccacctgct gccactagcc aagccgcgcg 120
tcagattgct tggagaagcc cgttcaccgc ctccagctgc tgctctcctc gacatggacc 180
ctgagacctg cccctgccct tctggtggct cctgcacctg cgggactcc tgcaagtgcg 240
agggatgcaa atgcacctcc tgcaagaaga gctgctgctc ctgctgccct ggggagtgtg 300
agaagtgtgc caaggactgt gtgtgcaaag gcggagaggc agctgaggca gaagcagaga 360
agtgcagctg ctgccagtga gaaggcacc ctcctgtgtg agcacgtgga gatagtgcga 420
ggtggtcag tgccacctat gcctgtgtgt aagtgtggct ggtgtcccct tcccctgctg 480
accttgaggg aatgacaata aatcccatga acagcaaaaa aaaaaaaaag g 531

<210> 263
<211> 1095
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 988231.7

<400> 263
ccccaaaccc gcacagagca ggactgcagc ctgaggaaa agcaaggatt tcaggagaga 60
ggcctgcgac aagtgagggt agggcttttg ggggattgtc ctggcgctg gagtgtgggg 120
gacctggcagg ggccctgaac ggggacagtg aggtcctgta cttgctggcc tgggggtggac 180
agaacccaag cctgggtaaa atccccagg cccctaaac ccaacactta ggaagtcact 240
agtctgact tgagtttctg atgagggaag ctctctcctt agccttcagc ctttccctcc 300
acctgacct aaagtaattt gatcctcaag aagttaaacc acacctcatt ggtccctggc 360
taattcacca atttacaac agcaggaaat agaaacttaa gagaaataca cacttctgag 420
aaactgaaac gacaggggaa aggaggtctc actgagcacc gtcccagcat ccggacacca 480
cagcggccct tcgctccacg cagaaaacca cacttctcaa accttcaact aacacttcc 540
tccccaaagc cagaagatgc acaaggagga acatgagggt gctgtgctgg gggcaccccc 600
cagcaccatc cttccaagggt ccaccgtgat caacatccac agcgagacct cctgtgccga 660
ccatgtctgc tggctccctgt tcaacaccct cttcttgaac tgggtgctgtc tgggcttcat 720
agcattcgcc tactccgtga agtctaggga caggaagatg gttggcgacg tgaccggggc 780
ccaggcctat gcctccaccg ccaagtgcct gaacatctgg gccctgattc tgggcatect 840
catgaccatt ggattcaatc tgttactggt attcggtct gtgacagtct accatattat 900
gttacagata atacaggaaa aacgggggta ctagtagccg cccatagcct gcaacctttg 960
cactccactg tgcaatgctg gccctgcacg ctggggctgt tgcccctgcc cccttggtcc 1020
tgcccctaga tacagcagtt tatacccaca cacctgtcta cagtgtcatt caataaagtg 1080
cacgtgcttg tgaaa 1095

<210> 264
<211> 695
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 444902.6

<400> 264
ggaaaaggaa actgttgaga aaccgaaact actggggaaa gggagggtct actgagaacc 60
atcccagtaa cccgaccgcc gctggctctt cctggacacc atgaatcaca ctgtccaaac 120
cttcttctct cctgtcaaca gtggccagcc ccccaactat gagatgctca aggaggagca 180
cgaggtggct gtgctggggg cggccacaa cctgtctccc ccgacgtcca ccgtgatcca 240
catccgcagc gagacctccg tgcccagcca tgctgtctgg tccctgttca acacctctt 300
catgaacccc tgctgcctgg gcttcatagc attcgcttac tccgtgaagt ctagggacag 360
gaagatgggt ggcgagtgga ccggggccca ggcctatgcc tccaccgcca agtgccctgaa 420
catctggggc ctgattctgg gcattctcat gaccattctg ctcatctgca tcccagtgtc 480
gatcttccag gcctatggat agatcaggag gcatactga ggccaggagc tctgcccatt 540

acctgtatcc cacgtactcc aacttccatt cctcgccctg ccccgaggc cgagtcctgt 600
atcagccctt tatcctcaca cgcttttcta caatggcatt caataaagtg cacgtgtttc 660
tggaaaataa aaaaaaaaaa agggcggtcg ccgat 695

<210> 265
<211> 1924
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 407546.8

<220>
<221> unsure
<222> 1507, 1509, 1515
<223> a, t, c, g, or other

<400> 265
tccgtccgta ctgcagagcc gctgccggag ggtcgtttta aagggcccg cgcgttgccgc 60
ccctcgggcc cgccatgctg ctatccgtgc cgtgctgct cggcctcctc ggcttgccgc 120
tcgcccagacc tgcggtctac ttcaaggagc agtttctgga cggagacggg tggacttccc 180
gctggatcga atccaaacac aagtcagatt ttggcaaatt cgttctcagt tccggcaagt 240
tctacgggtga cgaaggagaaa gataaagggt tgcagacaag ccaggatgca cgtttttatg 300
ctctgtcggc cagtttccag cctttcagca acaaaggcca gacgctggtg gtgcagttca 360
cgggtgaaaca tgagcagaac atcgactgtg ggggcccgtg tgtgaagctg ttccctaata 420
gtttggacca gacagacatg cacggagact cagaatacaa catcatgttt ggtcccgaca 480
tctgtggccc tggcaccaag aaggttcatg tcatcttcaa ctacaagggc aagaacgtgc 540
tgatcaacaa ggacatccgt tgcaaggatg atgagtttac acacctgtac acactgattg 600
tgcggccaga caacacctat gaggtgaaga ttgacaacag ccagggtggag tccggctcct 660
tggaagacga ttgggacttc ctgccacca agaagataaa ggatcctgat gcttcaaac 720
cgaagactg ggatgagcgg gccaaagatc atgatccac agactccaag cctgaggact 780
gggacaagcc cgagcatatc cctgacctg atgctaagaa gcccgaggac tgggatgaag 840
agatggacgg agagtgggaa ccccagtgga ttcagaaccc tgagtacaag ggtgagtgga 900
agccccggca gatcgacaac ccagattaca agggcacttg gatccacca gaaattgaca 960
accccgagta ttctcccgat ccagtatct atgcctatga taactttggc gtgctgggccc 1020
tggacctctg gcaggtcaag tctggcacca tctttgaca cttcctcatc accaacgatg 1080
aggcatagcc tgaggagttt ggcaacgaga cgtggggcgt aacaaaggca gcagagaaac 1140
aaatgaagga caaacaggac gaggagcaga ggcttaagga ggaggaagaa gacaagaaac 1200
gcaaagagga ggaggaggca gaggacaagg aggatgatga ggacaaagat gaggatgagg 1260
aggatgagga ggacaaggag gaagatgagg aggaagatgt ccccggccag gccaaaggacg 1320
agctgtagag aggcctgcct ccagggtcgg actgaggcct gagcgctcct gccgcagagc 1380
ttgcccgcgc aaataatgct tctgtgagac tcgagaactt tcattttttt ccaggctggt 1440
tcggatttgg ggtggatttt ggttttgttc cctcctcca ctctccccc cccctcccc 1500
gcccttntnt ttttnttttt ttaactgggt attttatctt tgattctcct tcagccctca 1560
cccctgggtc tcatctttct tgatcaacat cttttcttgc ctctgtcccc ttctctcatc 1620
tcttagctcc cctccaacct ggggggcagt ggtgtggaga agccacaggc ctgagatttc 1680
atctgctctc ctctctggag ccagaggag ggcagcagaa ggggggtggtg tctccaaccc 1740
cccagcactg aggaagaacg gggctcttct catttcaccc ctccctttct cccctgcccc 1800
caggactggg ccacttctgg gtggggcagt ggggtcccaga ttggctcaca ctgagaatgt 1860
aagaactaca aacaaaattt ctattaaatt aaattttgtg tctccaaaaa aaaaaaaaaa 1920
gagg 1924

<210> 266
<211> 4537
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 346511.4

<220>
<221> unsure
<222> 2849-2944
<223> a, t, c, g, or other

<400> 266

```

cggcagccag ctgagagcaa tgggaaatgg ggagtcaccag ctgtcctcgg tgccctgctca 60
gaagctgggt tggtttatcc aggaatacct gaagccctac gaagaatgtc agacactgat 120
cgacgagatg gtgaacacca tctgtgacgt cctgcaggaa cccgaacagt tccccctggt 180
gcaggggagtg gccatagggtg gtcctatagg acggaaaaaca gtcttaagag gcaactccga 240
tggtagccctt gtctctctct tcatgtactt aaaacaattc caggatcaga agagaagcca 300
acgtgacatc ctcgataaaa ctggggataa gctgaagttc tgtctgttca cgaagtgggt 360
gaaaaacaat ttcgagatcc agaagtcctt tgatgggttc accatccagg tggtcacaaa 420
aaatcagaga atctctttcg aggtgctggc cgccttcaac gctctgagct taaatgataa 480
tcccagcccc tggatctatc gagagctcaa aagatccttg gataagacaa atgccagtcc 540
tggtaggttt gcagtctgct tcaactgaac ccagcagaag ttttttgaca accgtcctgg 600
aaaaactaaag gatttgatcc tcttgataaa gcactggcat caacagtgcc agaaaaaaat 660
caagggttta ccctcgctgt ctcgtatgc cctggagctg ctacgggtgt atgcctggga 720
acaggggtgc agaaaagaca actttgacat tgctgaaggc gtcagaaccg tactggagct 780
gatcaaatgc caggagaagc tgtgtatcta ttggatggtc aactacaact ttgaagatga 840
gaccatcagg aacatcctgc tgcaccagct ccaatcagcg aggccagtaa tcttggatcc 900
agttgaccca accaataatg tgagtggaga taaaatatgc tggcaatggc tgaaaaaaga 960
agtcacaacc tggttgactt tcccacactt cgggataatga gttacctgca ccatcttggg 1020
atgttctgcc tgcaccactc ttcacgaccc caggccacct tctggataag ttcatcaagg 1080
agtttctcca gcccaacaaa tgcttcttag agcagattga cagtgtctgtt aacatcatcc 1140
gtacattctt taaagaaaaa tgcttccgac aatcaacagc caagatccag attgtccggg 1200
gaggatcaac cgcaaaaggc acagctctga agactggctc tgatgccgat ctcgctgtgt 1260
tccataactc acttaaaagc tacacctccc aaaaaaacga gcggcacaaa atcgtaagg 1320
aaatccatga acagtgaaga gccttttggg gggagaagga ggaggagctt gaagtcagct 1380
ttgagcctcc caagtggaaag gctcccagggt tgctgagctt ctctctgaaa tccaaagtcc 1440
tcaacgaagg tctcagcttt gatgtgcttc ctgcctttaa tgcactgggt cagctgagtt 1500
ctggctccac agccagcccc gaggtttatg cagggtctcat tgatctgtat aaatcctcgg 1560
acctcccggt aggagagttt tctacctgtt tcacagtcct gcagcgaaac ttcattcgct 1620
cccgccccac caaactaaag gatttaattc gcctgggtga gcactggtac aaagagtgtg 1680
aaaggaaact gaagccaaag gggctcttgc ccccaaagta tgcttggag ctgtccacca 1740
tcttctcctg gaagcagggg agtggagtgc cctgatttga cactgcagaa ggtttccgga 1800
cagtcctgga gctggtcaca caatatcagc agctctgcat cttctggaag gtcaattaca 1860
actttgaaga tgagaccgtg aggaagtttc tactgagcca gttgcagaaa accaggcctg 1920
tgatcttggg cccagccgaa cccacaggtg acgtgggtgg aggggaccgt tggtgttggc 1980
atcttctggc aaaaagaagc aaggaatggt tatcctctcc ctgcttcaag gatgggactg 2040
gaaacccaat accaccttgg aaagtgcggg taaaagtcat ctaaaggagg cgttgtctgg 2100
aaatagccct gtaacaggct tgaatcaaag aacttctcct actgtagcaa cctgaaatta 2160
actcagacac aaataaaggc aaccagctc acaggagctt aaacagctgg tcagccccct 2220
aagccccacac tacaagtgat cctcaggcag gtaaccccag attcatgcac tgtaggggtg 2280
tgccgagcat cctagtctc taccagtag atgccactag cctcctctc ccctcctctc ccagtacaa 2340
ccaaagtctc tcagacattg tcaaacgttc ccctgggttc acagatcttt atggccctga aagcggccac 2400
cttttggtc caccctcttt agctgttaat ttgagtaact aggaaaagat acccaaaggt 2460
ggtgctcca ttggaatcca ttgcaatcca atccgcaa atttctccat ttcatgtctc 2520
caagaacaca gtgttttat tagaagtttc aggtggctac aaagatgact gtggacgtgg 2580
agaaatgtca tgtggttacc tgtaacttga caoctctcca aagccctccc tactaccaaa 2640
gttgactgg ccaccaagg atgtctgcca cctcctccag atatacttg tctctccac 2700
gataacctg atatatcca ccaggatata cctctgatac tactcacatt gggctagaca 2760
caggttcttt ctttaaagca gatttctcaa ttttgatac nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 2820
gttctttgtt tggaggctct cttgtgcann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 2880
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 2940
nnnnccctag gtgagaacce ttgcactaga ggaaccctac accccaacce tggggggaat 3000
gtaggggaaga ggtggccaag ccaaccgtgg ggctagctct aattattaag atatgcatta 3060
taataaata ccaaaaaatt gtctctggca atagttacct tcccagatac aggtccccc 3120
tttttcccc taactctttt aagcaatgat tgtaactatt aggagacatt gctctccac 3180
gtatgtttt ctttttagac aatgcagaca ccaggaagtt gtggagctag gatccatct 3240
attgtcaatg agatgttctc atccagaagc catagaatcc tgaataataa ttctaaaaga 3300
aacttctgga gatcatctgg caatcgcttt taagactcg gctcacctg agaaaagagtc 3360
actcacatcc attcttccct tgatggctcc tattcctcct tcccttgctt ccttgctga 3420
ttgaaatcaa tcaagactgc aaacccttct ataaagtctt gccttgctga actcctctc 3480
tgcaggcagc ctgctttaa aaatagtgc tgcattccac tttatgtgca tcttatttct 3540
gtcaacttgt atttttttt ttgtatttct ccaattagct cctcctttt cctccagtc 3600
taaaaaagga atcctctgtg tcttcaaagc aaagctcttt actttccctt tggttctcat 3660
aactctgtga tattgtctc ggtgcttcca actcatccac gtctgtctg tttctctgt 3720
atacaaaacc ctttctgccc ctgctgacac agacatctc tatgccagca gccagccaa 3780
ccttcaata gaacttcaag ctctccaaag gctcagatta taactgttgt catatttata 3840
tgaggctgtt gtcttttct tctgagcctg cctttctccc cccaccaggt agtatcctct 3900
tgccaaatca aaagactttt tcttgggctt tttagcctta agatacttga aggtctaggt 3960

```

gctttaacct	cacataacct	cacttaaact	tttatcactg	ttgcatatac	cagttgtgat	4020
acaataaaga	atgtatctgg	attttgtgcc	tagttcctag	cacacagctt	caaaaattct	4080
agagtttct	gataggagtg	tcttttgtat	tcataacaag	cccttttcac	ccatgcctgg	4140
gtttatgcta	acaaggttac	ccatggtggg	cccttagttt	caaggaagga	gttggccaag	4200
ccagaaagac	caagcatgtg	gttaaagcat	tggaatttcc	agcccatcc	caccccaat	4260
ctccaaggag	gtgatggggc	tggaatttga	gttcaatttt	aacatggcca	gtgatttaag	4320
caatgctgcc	tatgtaaaga	aacccaata	aaaactctgg	acagtggagg	ttggggagct	4380
tcctgattgg	cagacattcc	aatgtactag	gaaggtagcg	catcttgatt	ccacagggac	4440
aaaggctcct	gagctctggg	cccttccagt	gcttgccacc	ctacatactc	tttgtctggc	4500
tcttcatttg	tattctttat	aataaaatgg	tgattgt			4537

<210> 267

<211> 3199

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 346511.5

<400> 267

gtttctctgc	tctgggcagc	agcaagaatt	cctctgcctc	ccatcctacc	attcactgtc	60
ttgccgggag	ccagctgaga	gcaatgggaa	atggggagtc	ccagctgtcc	tcgggtgcctg	120
ctcagaagct	gggttggttt	atccaggaat	acctgaagcc	ctacgaagaa	tgtcagacac	180
tgatcgacga	gatggtgaac	accatctgtg	acgtcctgca	ggaacccgaa	cagttccccc	240
tggtgcaggg	agtggccata	ggtggctcct	atggacggaa	aacagtctta	agaggcaact	300
ccgatgggtac	ccttgctctc	ttcttcagtg	acttaaaaca	attccaggat	cagaagagaa	360
gccaacgtga	catcctcgat	aaaactgggg	ataagctgaa	gttctgtctg	ttcacgaagt	420
ggttgaaaaa	caatttcgag	atccagaagt	cccttgatgg	gttcaccatc	cagggtgttca	480
caaaaaatca	gagaatctct	ttcgaggtgc	tgggcgcctt	caacgctctg	agcttaaatg	540
ataatcccgag	cccctggatc	tatcgagagc	tcaaaagatc	cttgataag	acaaatgccca	600
gtctcgggtga	gtttgcagtc	tgcttcactg	aactccagca	gaagtttttt	gacaaccgtc	660
ctggaaaact	aaaggatttg	atcctcttga	taaagcactg	gcatcaacag	tgccagaaaa	720
aaatcaagga	tttacccctg	ctgtctccgt	atgccctgga	gctgcttacg	gtgtatgcct	780
gggaacaggg	gtgcagaaaa	gacaacttgg	actattgctga	aggcgctcaga	accgtactgg	840
agctgatcaa	atgccaggag	aagctgtgta	tctattggat	ggccaactac	aactttgaag	900
atgagaccat	caggaacatc	ctgctgcacc	agctccaatc	agcgaggcca	gtaatcttgg	960
atccagttga	cccaaccaat	aatgtgagtg	gagataaaat	atgctggcaa	tggtctgaaaa	1020
aagaagctga	aacctgggtg	acttctccca	acctggataa	tgagttacct	gcacctctt	1080
ggaatgttct	gcctgcacca	ctcttcacga	cccaggcca	ccttctggat	aagttcatca	1140
aggagtttct	ccagcccaac	aaatgcttcc	tagagcagat	tgacagtgtc	gttaacatca	1200
tccgtacatt	ccttaagaa	aactgcttcc	gacaatcaac	agccaagatc	cagattgtcc	1260
ggggaggatc	aaccgcaaaa	ggcacagctc	tgaagactgg	ctctgatgcc	gatctcgtcg	1320
tgttccataa	gtccactaaa	agctcacact	cccaaaaaaa	cgagcggcac	aaaatcgtca	1380
aggaaatcca	tgaacagctg	aaagcctttt	ggaggggagaa	ggaggaggag	cttgaagtca	1440
gctttgagcc	tcccaagtgg	aaggctccca	gggtgctgag	cttctctctg	aaatccaaag	1500
tcctcaacga	aagtgtcagc	tttgatgtgc	ttcctgcctt	taatgcactg	ggtcagctga	1560
gttctcgtgc	cacacccagc	cccagggttt	ctcagggtct	cattgatctg	tataaatcct	1620
cggacctccc	gggaggagag	ttttctacct	gtttcacagt	cctgcagcga	aacttcattc	1680
gctcccggcc	caccaaacta	aaggatttaa	ttcgccctgt	gaagcactgg	tacaaagagt	1740
gtgaaaggaa	actgaagcca	aaggggtctt	tgcccccaaa	gtatgccttg	gagctgctca	1800
ccatctatgc	ctgggagcag	gggagtggag	tgccggattt	tgacactgca	gaagggtttcc	1860
ggacagtctc	ggagctggtc	acacaatctc	agcagctctg	catcttctgg	aagggtcaatt	1920
acaactttga	agatgagacc	gtgaggaagt	ttctactgag	ccagttgcag	aaaaccaggc	1980
ctgtgatctt	ggacccagcc	gaaccacag	gtgacgtggg	tgagggggac	cgttgggtgtt	2040
ggcatcttct	ggcaaaagaa	gcaaaggaat	ggttatctct	tccttgcttc	aaggatggga	2100
ctggaaaccc	aataccacct	tggaagtgc	cgacaatgca	gacaccagga	agttgtggag	2160
ctaggatcca	tcctattgtc	aatgagatgt	ttctcatccag	aagccataga	atcctgaata	2220
ataattctaa	aagaaacttc	tgagatcat	ctggcaatcg	cttttaaaga	ctcggctcac	2280
cgtgagaaag	agtcactcac	atccattctt	cccttgatgg	tccttattcc	tccttccctt	2340
gccttcttgg	acttcttgaa	atcaatcaag	actgcacacc	ctttcataaa	gctgccttgc	2400
tgaactcttc	tctgcaggag	ccctgcttaa	aatagttgat	gtcatcactt	tatgtgcac	2460
ttatttctgt	caacttgtat	tttttttctt	gtatttttcc	aattagctcc	tcctttttcc	2520
ttccagtcta	aaaaaggaat	cctctgtgtc	ttcaaagcaa	agctctttac	tttcccttgc	2580
gttctcataa	ctctgtgac	ttgtctcggc	ttgttccaac	tcacccacgt	cctgtctgtt	2640
tcctctgtat	acaaaacctt	ttctgcccc	gctgacacag	acatcctcta	tgccagcagc	2700
cagccaaccc	tttcattaga	acttcaagct	ctccaaaggc	tcagattata	actgttgtca	2760

tatttatatg	aggctgttgt	cttttccttc	tgagcctgcc	tttctcccc	caccagagg	2820
tatctctctg	ccaaatcaaa	agactttttc	cttgggcttt	agccttaag	atacttgaag	2880
gtctaggtgc	tttaacctca	catacctca	cttaaaactt	tatcactgtt	gcataacca	2940
gttgtgatac	aataaagaat	gtatctggat	tttgtgccta	gttcctagca	cacagcttca	3000
aaaattctag	agtttctga	taggagtgtc	ttttgtatc	ataacaagcc	cttttcaccc	3060
atccctgggt	ttatgctaac	aaggttaccc	atgggtggcc	cttagtttca	aggaaggagt	3120
tggccaagcc	agaaagacca	agcatgttgt	taaagcatgg	aattttcagc	cccatccac	3180
ccccaatctc	caaggaggt					3199

<210> 268

<211> 5709

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1098141.1

<400> 268

agctcgctga	gacttcctgg	accccgccacc	aggctgtggg	gtttctcaga	taactgggcc	60
cctcgctca	ggaggccttc	accctctgct	ctgggttaaag	ttcatttgaa	cagaaagaaa	120
tggatttate	tgcctctcgc	gttgaagaag	tacaaaatgt	cattaatgct	atgcagaaaa	180
tcttagagtg	tcccatctgt	ctggagttga	tcaagggaacc	tgtctccaca	aagtgtgacc	240
acataatttg	caaattttgc	atgctgaaac	ttctcaacca	gaagaaaggg	ccttcacagt	300
gtcctttatg	taagaatgat	ataaccaaaa	ggagcctaca	agaaagtacg	agatttagtc	360
aacttggtga	agagctattg	aaaatcattt	gtgcttttca	gcttgacaca	ggtttggagt	420
atgcaaaacag	ctataatttt	gcaaaaaagg	aaaataactc	tctgaacat	ctaaaagatg	480
aagtttctat	catccaaagt	atgggctaca	gaaaccgtgc	caaagacctt	ctacagagtg	540
aaccgaaaa	tccttccttg	caggaaacca	gtctcagtgt	ccaactctct	aaccttgga	600
ctgtgagaa	tctgaggaca	aagcagcgga	tacaacctca	aaagacgtct	gtctacattg	660
aattgggagc	tgattctctt	gaagataccg	ttaataaggc	aacttattgc	agtgtgggag	720
atcaagaatt	gttacaatc	acccctcaag	gaaccaggga	tgaaatcagt	ttggattctg	780
caaaaaaggc	tgcttgtgaa	ttttctgaga	cggatgtaac	aaatactgaa	catcatcaac	840
ccagtaataa	tgatttgaa	accactgaga	agcgtgcagc	tgagaggcat	ccagaaaagt	900
atcagggtag	ttctgtttca	aacttgcatg	tggagccatg	tggcacaaat	actcatgcc	960
gctcattaca	gcatgagaac	agcagtttat	tactacttaa	agacagaatg	aatgtagaaa	1020
aggctgaatt	ctgtaataaa	agcaaacagc	ctggccttagc	aaggagccaa	cataacagat	1080
gggtcggaag	taaggaaaca	tgtaatgata	ggcggactcc	cagcacagaa	aaaaaggtag	1140
actgaatgc	tgatccctg	tgtgagagaa	aagaatggaa	taagcagaaa	ctgccatgtc	1200
cagagaatcc	tagagatact	gaagatgttc	cttggaatac	actaaatagc	agcattcaga	1260
aagttaatga	gtgggttttc	agaagtgtatg	aactgttagg	ttctgatgac	tcacatgatg	1320
gggagtctga	atcaaatgcc	aaagttagctg	atgtattgga	cgttctaaat	gaggtagatg	1380
aatattctgg	ttcttcagag	aaaatagact	tactggccag	tgatcctcat	gaggctttaa	1440
tatgttaaatg	tgaacaggtt	cactccaaat	cagtagagag	taataattgaa	gacaaaatat	1500
ttgggaaaac	ctatcggaag	aaggcaagcc	tccccaactt	aagccatgta	actgaaaatc	1560
taattatagg	agcatttgtt	actgagccac	agataataca	agagcgtccc	ctcacaaata	1620
aattaaagcg	taaaaggaga	cctacatcag	gccttcatcc	tgaggatttt	atcaagaaag	1680
cagattttggc	agtttcaaaag	actcctgaaa	tgataaatca	gggaactaac	caaacggagc	1740
agaatgggtca	agtgtatgaat	attactaata	gtgggtcatga	gaataaaaaca	aaaggtgatt	1800
ctattcagaa	tgagaaaaat	cctaacccaa	tagaatcact	cgaaaaagaa	tctgctttca	1860
aaacgaaagc	tgaacctata	agcagcagta	taagcaatat	ggaactcgaa	ttaaatatcc	1920
acaattcaaa	agcacctaaa	aagaataggc	tgaggaggaa	gtcttctacc	aggcatattc	1980
atgcgcttga	actagtagtc	agtagaaatc	taagcccacc	taattgtact	gaattgcaaa	2040
ttgatagttg	ttctagcagt	gaagagataa	agaaaaaaaa	gtacaaccaa	atgccagtca	2100
ggcacagcag	aaacctacaa	ctcatggaag	gtaaagaacc	tgcaactgga	gccaaagaaga	2160
gtaaacaagcc	aaatgaacag	acaagtaaaa	gacatgacag	cgatactttc	ccagagctga	2220
agttaacaaa	tgccactggg	tccttttacta	agtggttcaa	taccagtga	cttaagaaat	2280
ttgtcaatcc	tagccttcca	agagaagaaa	aagaagagaa	actagaaaca	gttaaagtgt	2340
ctaataatgc	tgaagacccc	aaagatctca	tgtaaagtgg	agaaagggtt	ttgcaaaactg	2400
aaagatctgt	agagagttagc	agtatttcat	tggtacctgg	tactgattat	ggcactcagg	2460
aaagtatttc	gttactggaa	gttagcactc	taggggaaggc	aaaaacagaa	ccaaataaat	2520
gtgtgagtca	gtgtgcagca	tttgaaaacc	ccaagggact	aattcatggt	tgttccaaag	2580
ataatagaaa	tgacacagaa	ggcttttaagt	atccattggg	acatgaagtt	aaccacagtc	2640
gggaaacaag	catagaaatg	gaagaaagt	aacttgatgc	tcagtatttg	cagaatacat	2700
tcaagggttc	aaagcgccag	ctatttgcct	cgttttcaaa	tccaggaaat	gcagaagagg	2760
aatgtgcaac	attctctgcc	cactctgggt	ccttaaagaa	acaaagtcca	aaagtcactt	2820
ttgaatgtga	acaaaaggaa	gaaaatcaag	gaaagaatga	gtctaataatc	aagcctgtac	2880


```

agacagttaa tatcactgca ggctttcctg tgggttggtca gaaagataag ccagttgata 2940
atgccaaatg tagtatcaaa ggaggctcta ggttttgtct atcatctcag ttcagaggca 3000
acgaaactgg actcattact ccaaataaac atggactttt acaaaaccca tatcgtatac 3060
caccactttt tcccatcaag tcatttgtta aaactaaatg taagaaaaat ctgctagagg 3120
aaaactttga ggaacattca atgtcacctg aaagagaaat gggaaatgag aacattccaa 3180
gtacagtggag cacaattagc cgtaataaca ttagagaaaa tgtttttaaa gaagccagct 3240
caagcaatat taatgaagta ggttccagta ctaatgaagt gggctccagt attaatgaaa 3300
taggttccag tgatgaaaac attcaagcag aactaggtag aaacagaggg ccaaaattga 3360
atgctatgct tagattaggg gttttgcaac ctgaggtcta taacaaagt ctctctggaa 3420
gtaatgttaa gcatcctgaa ataaaaaagc aagaatatga agaagtagtt cagactgtta 3480
atacagattt ctctccatat ctgatttcag ataacttaga acagcctatg ggaagtagtc 3540
atgcatctca ggtttgttct gagacacctg atgacctgtt agatgatggt gaaataaagg 3600
aagatactag ttttgcgtga aatgacatta aggaaagtct tgctgttttt agcaaaagcg 3660
tcagaaaagg agagcttagc aggagtccta gccctttcac ccatacacat ttggctcagg 3720
gttaccgaag aggggccaag aaattagagt cctcagaaga gaacttatct agtgaggatg 3780
aagagcttcc ctgcttccaa cacttgttat ttggtaaagt aaacaatata ccttctcagt 3840
ctactaggca tagcaccgtt gctaccgagt gtctgtctaa gaacacagag gagaatttat 3900
tatcatgaa gaatagctta aatgactgca gtaaccaggt aatattggca aaggcatctc 3960
aggaacatca ccttagtggag gaaacaaaat cttgttctct ctcacagtga 4020
gtgaattgga agacttgact gcaaatatac acaccagga tcctttcttg attggttctt 4080
ccaaacaaat gaggcacag tctgaaagcc agggagttgg tctgagtgcac aagggaattgg 4140
tttcagatga tgaagaaaga ggaacgggct tgggaagaaa taatcaagaa gagcaaagca 4200
tggatcaaaa cttaggtgaa gcagcatctg ggtgtgagag tgaaacaagc gtctctgaag 4260
actgctcagg gctatcctct cagagtgcac ttttaaccac tcagagggat accatgcaac 4320
ataacctgat aaagctccag caggaaatgg ctgaactaga agctgtgtta gaacagcatg 4380
ggagccagcc ttctaacagc ttacccttcc atcataagtg actcttctgc ccttgaggac 4440
ctgcgaaatc cagaacaaag cacattcaga ttaacttcac agaaaagtga 4500
tgaataccct ataagccaga atccagaagg cctttctgct gacaagtttg aggtgtctgc 4560
agatagttct accagtaaaa ataaagaacc aggagtggaa aggtcatccc cttctaaatg 4620
cccatcatta gatgatagg gtacatgca cagttgtctt gggagtcttc agaatagaaa 4680
ctaccatctc caagaggagc tcattaaggt tgttgatgtg gaggagcaac agctggaaga 4740
gtctgggcca cagatttga cggaaacatc ttacttgcca aggcagatc tagagggaa 4800
cccttacctg gaatctggaa tcagcctctt ctctgatgac cctgaatctg atccttctga 4860
agacagagcc ccagagtccag ctctgttgg caacatacca tcttcaacct ctgcattgaa 4920
agttcccaaa ttgaaagtga cagaatctgc ccagagtcca gctgctgctc atactactga 4980
tactgtggg tataatgcaa tggagaaag tgtgagcagg gagaagccag aattgacagc 5040
ttcaacagaa agggtaacaa aaagaatgtc catggtgggt tctggcctga cccagaaga 5100
atthtatgctc gtgtacaagt ttgcccagaa acaccacatc actttaacta atctaattac 5160
tgaagagact caactgtttg ttatgaaaac agatgctgag tttgtgtgtg aacggacact 5220
gaaatatttt ctaggaattg cgggaggaaa atgggtagtt agctatttct ggggtgacca 5280
gtctattaaa gaaagaaaaa tgctgaatga gcatgatttt gaagtcagag gagatgtggt 5340
caatggaaga aaccaccaag gtccaaagcg agcaagagaa tcccaggaca gaaagatctt 5400
cagggggcta gaaatctgtt gctatgggcc cttcaccaac atgcccacag atcaactgga 5460
atggttggta cagctgtgtg gtgcttctgt ttccatcatt tttccatcatt cacccttggc 5520
acaggtgtcc acccaattgt ggttgtgcag ccagatgcct ggacagagga caatggcttc 5580
catgcaattg ggcagatgtg tgaggcacct gtggtgacct gagagtgggt gttggacagt 5640
gtagcactct accagtgccg ggagctggac acctacctga taccacagat ccccccacagc 5700
cactactga 5709

```

<210> 269

<211> 3338

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 238089.2

<400> 269

```

gcgctgtgta ggcaagttac ccgtgttctg cggtgcccgc cgtgggtgct ctggccacag 60
tgagttaggg gcgtcggagc gggtttctcc aaccgcaatc ggctccgctc aaggggagga 120
ggagagtcct ttctcggag acctaaggaa acgtgtcgtc tggaatgggc ttgggggcca 180
cgctcgaca tctccggag acagagggat aaagtgaaga tgggtgctgtt attgttacct 240
cgagtgcac atgcgatctc tgagatatgt acacagtcac tcttactatc gcaactcagcc 300
attcttacta cgctaaagaa gaaataatta ttccagagata tttgcctggc ccagaagaaa 360
cttatgtaaa tttcatgaac tattatatcc gttttcctcg gagtggagga aaactctttt 420
tagatatcat ctgagaggta gtttaatttg caccatgggg atacagggat tgctacaatt 480

```


tatcaaagaa	gcttcagaac	ccatccatgt	gaggaagtat	aaagggcagg	tagtagctgt	540
ggatacatat	tgctggcttc	acaaaggagc	tattgcttgt	gctgaaaaac	tagccaaagg	600
tgaacctact	gataggtagt	taggattttg	tatgaaattt	gtaaatatgt	tactatctca	660
tgggatcaag	cctattctcg	tatttgatgg	atgtacttta	ccttctaaaa	aggaagtaga	720
gagatctaga	agagaaagac	gacaagccaa	tcttcttaag	ggaaagcaac	ttcttcgtga	780
ggggaagtc	tcggaaagtc	gagagtgttt	cacccggctc	atcaatatca	cacatgccat	840
ggccacaaaa	gtaattaaag	ctgcccggtc	tcagggggta	gattgcctcg	tggctcccta	900
tgaagctgat	gcgcagttgg	cctatcttaa	caaagcggga	attgtgcaag	ccataattac	960
agaggactcg	gatctcctag	cttttggtcg	taaaaaggta	attttaaaga	tggaccagtt	1020
tggaaatgga	cttgaaattg	atcaagctcg	gctagggaatg	tgacagacgc	ttggggatgt	1080
attcacggaa	gagaagtttc	gttacatgtg	tattctttca	ggttgtgact	acctgtcatc	1140
actgcgtggg	attggattag	caaaggcatg	caaagtctta	agactagcca	ataatccaga	1200
tatagtaaag	gttatcaaga	aaattggaca	ttatctcaag	atgaatatca	cggtagccga	1260
ggattacatc	aacgggttta	ttcgggccaa	cacacacctc	ctctatcagc	tagtttttga	1320
tcccatcaaa	aggaaactta	ttcctctgaa	cgcctatgaa	gatgatgttg	atcctgaaac	1380
actaagctac	gctgggcaat	atgttgatga	ttccatagct	cttcaaatag	cacttggaaa	1440
taaagatata	aatacttttg	aacagatcga	tgactacaat	ccagacactg	ctatgcctgc	1500
ccattcaaga	agtctagttt	gggatgacaa	aactgtcaa	aagttagcta	atgttagcga	1560
catttgggca	taggaattac	tctcccagac	cagagtccgg	tactgtttca	gatgccccac	1620
aattgaagga	aaatccaagt	actgtgggag	tggaacgagt	gatttagtact	aaaggggtta	1680
atctcccaag	gaaatcatcc	attgtgaaaa	gaccaagaag	tgacagactg	tcagaagatg	1740
acctgttgag	tcagtattct	ctttcattta	cgaagaagac	caagaaaaat	agctctgaag	1800
gcaataaatc	attgagcttt	tctgaaatgt	ttgtgcctga	cctggtaaat	ggacctacta	1860
acaaaaagag	tgtaagcact	ccacctagga	cgagaaataa	atttgcaaca	tttttacaaa	1920
ggaaaaatga	agaaagtggg	gcagttgtgg	ttccagggaac	cagaagcagg	tttttttgca	1980
gttcagattc	tactgactgt	gtatcaaaaa	aagttagcat	ccagcctctg	gatgaaactg	2040
ctgtcacaga	taaagagaac	aatctgcatg	aatcagagta	tggagaccac	gaaggcaaga	2100
gactggttga	cacagatgta	gcacgtaatt	caagtgtatg	cattccgaat	aatcatattc	2160
caggtgatca	tattccagac	aaggcaacag	tgttttacaga	tgaagagtcc	tactcttttg	2220
agagcagcaa	atttacaagg	accatttcac	caccaccttt	gggaacacta	agaagttggt	2280
ttagtgtggt	tggaggtctt	ggagattttt	caagaacgcc	gagccctctc	ccaagcacag	2340
cattgcagca	gttccgaaga	aagagcgatt	ccccacctc	tttgcttgag	aataatatgt	2400
ctgatgtgtc	gcagttaaag	agcgaggagt	ccagtgcaga	tgagtctcat	cctttacgag	2460
aaggggcatg	ttcttcacag	ttccaggaaa	gtggagaatt	ctcactgcag	agttcaaatg	2520
catcaaaagt	ttctcagtcg	tctagttaag	actctgattc	agaggaatct	gattgcaata	2580
ttaagttact	tgacagtcaa	agtgaccaga	cctccaagct	atgtttatct	cattttctcaa	2640
aaaaagacac	acctctaagg	aacaaggttc	ctgggctata	taagtccagt	tctgcagact	2700
ctctttctac	aaccaagatc	aaacctctag	gacctgccag	agccagtggtg	ctgagcaaga	2760
agccggcaag	catccagaac	agaaagcatc	ataatgccga	gaacaagccg	gggttacaga	2820
tcaaaactcaa	tgagctctgg	aaaaactttg	gatttataaaa	agattctgaa	aagcttcctc	2880
cttgtaagaa	acctctgtcc	ccagtcagag	ataacatcca	actaactcca	gaagcggaag	2940
aggatatatt	taacaaaacct	gaatgtggcc	gtgttcaaa	agcaatatct	cagtaaattgc	3000
agactgctgc	aaagcttttg	cctgcaagag	aatctgatca	atttgaagtc	cctgtttggg	3060
aatgagggcac	ttatcagcat	gaagaatttt	ttctcattct	gtgccatttt	aaaaatagaa	3120
tacattttgt	atattgactt	tataattggg	ttgtgggttt	tttgctcagc	tttttatatt	3180
tttataagaa	gctaaataga	agaataattg	tatctctgac	aggttttttg	aggtttttagt	3240
gttaattggg	aaaatcctct	ggagtttata	aaagtctact	ctaaatatct	ctgtaattgt	3300
gtcaagtaga	aagatagtaa	atggagaacg	tacaatcc			3338

<210> 270

<211> 1458

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1100105.3

<220>

<221> unsure

<222> 761

<223> a, t, c, g, or other

<400> 270

ggcagcttca	ccaaagtggg	gtattttccag	cctttgtagc	tttcaattcc	acatctacca	60
agtgggcgga	gtggccttct	gtggacgaat	cagattcctc	tccagcaccg	actttaagag	120
gcgagccggg	gggtcagggt	cccagatgca	caggaggaga	agcaggagct	gtcgggaaga	180

tcagaagcca	gtcatggatg	accagcgcga	ccttatctcc	aacaatggag	caactgcccc	240
tgctgggccc	gcgccttggg	gccccggaga	gcaagtgcag	cgcgggagcc	ctgtacacag	300
gcttttccat	cctggtgact	ctgctcctcg	ctggccaggc	caccaccgcc	tacttccctgt	360
accagcagca	gggcccggctg	gacaaactga	cagtcacctc	ccagaacctg	cagctggaga	420
acctgcgcac	gaagcttccc	aagcctccca	agcctgtgag	caagatgcgc	atggccaccc	480
cgtgctgat	gcagcgcctg	cccatgggag	ccctgcccc	ggggcccatg	cagaatgcca	540
ccaagtatgg	caacatgaca	gaggaccatg	tgatgcacct	gctccagaat	gctgaccccc	600
tgaagggtga	cccgccactg	aaggggagct	tcccggagaa	cctgagacac	cttaagaaca	660
ccatggagac	catagactgg	aaggtctttg	agagctggat	ggcaccattg	gctcctgttt	720
gaaatgagca	ggcactgcct	tggagcaaaa	gcccactgga	ncggctccac	cgaaagagtc	780
actggaactg	ggaggacccg	tcttctgggc	tgggtgtgac	caagcaggat	ctggggccag	840
tcccctatgt	agagcagcag	aggcgtctct	caacatcctg	ccagccccac	acagctacag	900
ctttcttgc	cccttcagcc	cccagccctc	ccccatctc	ccacctgtga	cctcatccca	960
tgagcacctg	gtgcctggct	ctttcgtcac	ccttggacaa	gacaaaccaa	gtcggaacag	1020
cagataacaa	tgagcaagg	ccctgtctgc	caatctccat	ctgtcaacag	gggctgagg	1080
tcccaggaag	tggcctaaa	ctagacagat	ccccgttctc	gacatcacag	cagcctccaa	1140
cacaaggctc	caagacctag	gctcatggac	gagatgggaa	ggcacaggga	gaagggataa	1200
ccctacaccc	agacccaagg	ctggacatgc	tgactgtcct	ctcccccca	gcctttggcc	1260
ttggcttttc	tagcctattt	acctgcaggc	tgagccactc	tcttcccttt	ccccagcatc	1320
actcccaag	gaagagccaa	tgttttcac	ccataatcct	ttctgccgac	ccctagtctc	1380
ctctgctcag	ccaagcttgt	tatcagcttt	cagggccatg	gttcacatta	gaataaaagg	1440
tagtaattag	aaaaaaaa					1458

<210> 271

<211> 2247

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 474729.2

<220>

<221> unsure

<222> 26, 1700-1964

<223> a, t, c, g, or other

<400> 271

gggacacccg	tcccgaacga	accgantgcg	gccccgtccc	gcgcggccgc	cgccagccat	60
gagctccacg	cagttgcaac	aagggccctc	cgtagcgggc	tgctggccga	ggtcaagaac	120
cggctcctgt	ccaaatatga	cccccagaag	gaggcagagc	tccgcacctg	gatcgaggga	180
ctcaccggcc	tctccatcgg	ccccgacttc	cagaagggcc	tgaaggatgg	aactatctta	240
tgcacactca	tgaaacaagc	acagccgggc	tcgtcccca	agatcaaccg	ctccatgcag	300
aactggcacc	agctagaaaa	cctgtccaac	ttcatcaagg	ccatggctcag	ctacggcatg	360
aacctgtgtg	acctgttcga	ggccaacgac	ctgtttgaga	gtgggaacat	gacgcagggtg	420
caggtgtctc	ttctcgccct	ggcggggaag	gccaagacta	aggggctgca	gagcgggggtg	480
gacattggcg	tcaagtactc	ggagaagcag	gagcgggaat	tcgacgatgc	caccatgaag	540
gctggccagt	gcgtcatcgg	gctgcagatg	ggcaccaaca	aatgcgccag	ccagtcaggc	600
atgactgcct	acggcacgag	aaggcatctc	tatgacccca	agaaccatat	cctgcccccc	660
atggaccact	cgaccatcag	cctccagatg	ggcacgaaca	agtgtgccag	ccaggtgggc	720
atgacggctc	ccgggacccg	gcggcacatc	tatgatacca	agctgggaac	cgacaagtgt	780
gacaactcct	ccatgtccct	gcagatgggc	tacacgcagc	gcgccaacca	gagcggccag	840
gtcttcggcc	tggggccggc	agatatatga	ccccagttac	tgcccgaag	gcacagtggc	900
cgatggggct	ccctcgggca	ccggcgactg	cccggaaccg	ggggagggtc	ctgaatatcc	960
cccttactac	caggaggagg	ccggctactg	aggctcccag	cacgctctct	ccccacatcg	1020
tctccccate	tgggtttttg	ggtttttctg	tgttttcatc	tttttatttt	ttttcttaac	1080
ccgttcagtg	ctgccagtca	accaagggtc	tgtgagtgtc	agcgtgggat	caggcagcag	1140
agcttttttc	ccctttgcct	tgatccttcg	caaggctgag	ccactgggct	gtgggggaag	1200
gggtcaaggc	catatcccaa	tacgtgtagg	gcgagggtcc	ctgctggcac	attcaggctg	1260
tgctgggaag	aagagacctg	ggcttggga	gaacgggtcc	ccgacgggtt	ctgggtgcct	1320
cgcctcttcc	cccttttgtc	agctgagcag	tttgtggttt	ctatgccgc	aagtttcagg	1380
aagtattcac	aaaagaaaaa	tacatttttt	cccccagggg	tggggcaagg	acagtggaga	1440
gagtgtcagg	aaatgagtc	cctgggaaag	gggaccgggc	cgtgatgtta	aatatctccg	1500
gtcccaaggt	gactggattt	gcctaggacc	ttcagatcaa	cagacttcag	accctcagag	1560
ctgcctgggg	gccaggtgga	gaaagtggag	ggcgtaaca	gaagtgaat	tctgagttgt	1620
tggggctaag	cctgaccccc	tctccatgct	ccccgcccc	actcactctg	gcctcagtag	1680
attttttttt	cagttgtggn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1740

```

nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 1800
nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 1860
nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 1920
nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 1980
ggagtgcccca gccctcctcc ctctctgggcc atactgctcc atcttccccg 2040
gccacatgcc ccgccaagta ctgcacaggg acccccacc caggggccct gctccgtgag 2100
ataatgtgaa atacgactgt ggaccaaacc caataaaacc tctgtttgta ctgctccatc 2160
ttccccggcc acatgccccg ccaagtactg cacagggacc cccaccagc gggccctgct 2220
ccgtgagata atgtgaaata cgactgt 2247

```

<210> 272

<211> 6949

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 363000.3

<220>

<221> unsure

<222> 2811-2812, 2814

<223> a, t, c, g, or other

<400> 272

```

atcagggaga cagggcaaag gtttcaccct tcagttcagt ccccaatccc tgcttattat 60
ttccctaaca gaagaccatc ccccttgcca ctccctgggt tttcttctct ggcagcaatg 120
aagcagctgc tgaccagct ctagttttcg ggaagtcaga tgaccttttc cctcccgcgg 180
ctctctacct ctgcgcgcc ctagggagga caccatgggc ccactgatgg ttcttttttg 240
cctgctgttc ctgtaccag gtctggcaga ctcggtccc tctgcctc agaacgtgaa 300
tatctcgggt ggcacottca cctcagcca tggctgggt cctgggagcc ttctcaccta 360
ctctgcctcc cagggcctgt acccatcccc agcatcacgg ctgtgcaaga gcagcggaca 420
gtggcagacc ccaggagcca cccggtctct gtctaaggcg gtctgcaaac ctgtgcgctg 480
tccagccctc gtctcctttg agaatggcat ttatacccca cggtgggggt cctatcccgt 540
gggtggcaat gtgagcttcg agtgtgagga tggcttcata ttgctggggt cgctgtgctg 600
tcagtgtcgc cccaacggca tgtgggatgg agaaacagct gtgtgtgata atggggctgg 660
ccactgcccc aaccaggcca ttctactggg cgcagtgcgg acaggcttcc gctttgggtca 720
tggggacaag gtccgctate gctgctctc gaatcttggt ctacgggggt ctccggagcg 780
ggagtgcag ggcaacgggg tctggagtgg aacggagccc atctgcggcc aacctactc 840
ttatgacttc cctgaggacg tggccctgc cctgggcact tcttctctcc acatgcttgg 900
ggccaccaat cccaccaga agacaaagga aagcctgggc cgtaaaatcc aaatccagcg 960
ctctggtcat ctgaacctct acctgctct ggagtgtcag cagagtgtgt cggaaaatga 1020
ctttctcatc ttcaaggaga gcgcctcct catggtggac aggatcttca gctttgagat 1080
caatgtgagc gttgccatta tcacctttgc ctacagagccc aaagtccctca tgtctgtcct 1140
gaacgacaac tccggggata tgactgaggt gatcagcagc ctggaaaatg ccaactataa 1200
agatcatgaa aatggaactg ggactaacac ctatgcggcc ttaaacagtg tctatctcat 1260
gatgaacaac caaatgcgac tcctcggcat ggaacagatg gcoctggcagg aaatccgaca 1320
tgccatcatc ctctgacag atggaaagtc caatatgggt ggctctccca agacagctgt 1380
tgaccatata agagagatoc tgaacatcaa ccagaagagg aatgactatc tggacatcta 1440
tgccatcggg gtgggcaagc tggatgtgga ctggagagaa ctgaatgagc taggggtcaa 1500
gaaggatggg gagaggcatg ccttcattct gcaggacaca aaggctctgc accaggtctt 1560
tgaacatatg ctggatgtct ccaagctcac agacaccatc tgggggttgg ggaacatgtc 1620
agcaaacgcc tctgaccagg agaggacacc ctggcatgtc actattaagc ccaagagcca 1680
agagacctgc cggggggccc tcatctccga ccaatgggtc ctgacagcag ctcatgtctt 1740
ccgcgatggc aacgaccact cctgtggag ggtcaatgtg ggagaccca aatcccagtg 1800
gggcaaagaa ttcttattg agaaggcggg gatctcccca gggtttgatg tctttgccaa 1860
aaagaaccag ggaatcctgg agttctatgg tgatgacata gctctgctga agctggccca 1920
gaaagttaaag atgtccaccc atgccaggcc catctgcctt ccctgcacga tggaggccaa 1980
tctggctctg cggagacctc aaggcagcac ctgtaggag catgagaatg aactgctgaa 2040
caacacagat gttctgtgct atttgtcgc ctgtaatggg agcaaaactga acattaacct 2100
taagatggga gtggagtggc caagctgtgc cgaggttgtc tcccaagaaa aaacctgtt 2160
ccccaaactg acagatgtca gggagtggtg gacagaccag ttctatgca gtgggaccca 2220
ggaggatgag agtccctgca agggagaatc tgggggagca gttttccttg agcggagatt 2280
caggtttttt cagctgggtc tggtagctg ttgctcttac aacctctgcc ttggctctgc 2340
tgacaaaaac tcccgcaaaa gggccctctg tagcaaggtc ccgcccac gagactttca 2400
catcaatctc ttccgcatgc agccctggct gaggcagcac ctgggggatg tctgaattt 2460
tttaccctc tagccatggc cactgagccc tctgtgccc tgccagaatc tgccgccct 2520

```

ccatcttcta	cctctgaatg	gccaccctta	gaccctgtga	tccatcctct	ctcctagctg	2580
agtaaatccg	ggtctctagg	atgccagagg	cagcgcacac	aagctgggaa	atcctcaggg	2640
ctcctaccag	caggactgcc	tcgctgcccc	acctcccgc	ccttggcctg	tccccagatt	2700
ccttccctgg	ttgacttgac	tcattgctgt	ttcactttca	catggaattt	cccagttatg	2760
aaatataata	aaatcaatgg	tttccacaaa	aaaaaaaggg	cggccgccga	nnantgagct	2820
tgtactttat	tacatatgca	accttgccat	gectgccagt	taactcccct	cccgccaatg	2880
ttatcctcat	gatatcagct	ccctcttggg	gccactgagc	tgccccccct	tccttctggg	2940
ctggagtagt	ggtgccccct	aagcaggcaa	tgggcagggg	gagatccaca	attaatcgct	3000
gcagtctctc	taaaagtatt	aacacttaaa	taagcactct	tggggagtgt	caaaggatat	3060
tcaggatggg	atgcagtggg	aggctacccc	tcattccaagg	tacaggctgg	aatgagctac	3120
agctggtcta	tcgtgggcct	cagaagggtga	agagggaccg	tattctgggg	cttagtgtgg	3180
gtggggcata	tcctccccaa	acttgttctg	gtgggcgatg	ttcttcacat	ctaggagagc	3240
ctggtggtgg	acataggcct	gacagtagta	acaccaggct	gacaggctga	tgtagctgag	3300
gaccatgggt	tgtccagaat	ttccatggtg	ttggagcatg	tggccattga	tgtaacgcac	3360
acagtagacc	tgatagcaag	agagacacac	ccaattctct	tggattgttc	cacagtcccc	3420
acaagggttg	gtcactgtct	ggcctgctgc	aggatatggg	catactgcc	ccaaatgggg	3480
acaccagggc	agtgggtgca	cagcataaaa	tatggcctga	tcagtggagg	ccctagatcc	3540
ctgcacgcag	ccatgtcctg	ccatgtcctg	acctccagct	gcctctccta	gtagggtctc	3600
ctctcctggg	gcctgagatt	ctgaggcccc	ctgagattcg	ctgcctagct	ccaaggctct	3660
gagactccca	atcagtgtac	tgggagatat	ctgggggtga	gttccctgca	cagggtgagg	3720
tgggggggtc	tgggtggtct	tgctcgaggc	tagaggagtt	tggatcagct	cggtgcccc	3780
tggagcctcc	tctggtccag	tctggtccag	tgtggtctcc	tccatggctg	cctccgaggt	3840
ggtctggggc	agtgtagctc	ctcctacagc	ctcctctgag	gtagtctggc	ccagcgtggc	3900
tcccccaaca	gcattctctg	aggtggtctg	gtccagaatg	gtcctcccca	cagtctcctc	3960
tgagggtggt	tgggtccggag	tgggtccccc	gacagcctcc	tctgagggtg	tctggcccag	4020
catggctccc	ccaatggctg	cctcagaaat	ggtctggggc	agagtgggct	cccctgtggc	4080
tgcctctgag	gctctggtct	gagtgagggc	caccacagct	gtctctgagt	tagtctggcc	4140
tggagtggac	tcttccccaa	atgatgccga	ggtgacttct	cccatgcctg	cttccagaac	4200
cttcttttct	cgtgtggtca	tccgctcagc	taacctaggt	ttggctgggt	ggggtgcctt	4260
cttgggtgac	aacttagaac	tggagggtcc	ttctctgtct	tctaccttca	tgaccctga	4320
gctgcgcagc	tatctgcgat	ggacttggat	gtctcagtg	attgaggcca	gggccccga	4380
tagtgggggc	cgtggcaggg	tcagcagggg	tgggtgggtc	ccaaggaggg	agcgagtgca	4440
ggcagccatg	gactctgaga	tggatgtcag	gttatagcca	ccctctagga	taaggataat	4500
gcgccactg	gcaaggccca	tcagcaggtg	ggtgaggtgg	gcataaccct	caggtgacac	4560
ctggcagccc	cccagcggtg	ccccccgtgc	cccatcaaa	ccagctgaga	ccagcaccag	4620
ttctgggtta	aactcgtagg	caatgggaag	caccaggcga	tgccaggcag	ctaggtagtc	4680
agcatcaccc	atgcggggcc	cgttccatgc	cacgttgacg	gtgaagcctg	tgcccgcagc	4740
ccggccgatc	tggctgctgg	caccctcctc	ccccatggg	aagaagggtg	catgatcata	4800
gcggtgacgc	gacactgata	gcacactggg	gtcactctca	aacatgtgct	gagttccatt	4860
accgtggtgg	acatcccaat	ccacaatcag	gatccgtagg	gcatgccacc	tgtatgtctg	4920
ggcatggcga	gcagccacag	ccacagagtt	gaaaaagcaa	aaaccgcaag	ctgcactctg	4980
ctctgcgtgg	tgtcctgggg	gacgcaccac	agcagcacca	ttcagaacct	ctcctgagag	5040
cacagcctcc	accaggcgcc	aggcagcgcc	agtggcaagc	tgtgcacagg	cgaagggtact	5100
ggggcagata	tagatggagt	caaagtggga	actctcacgg	tgcagctccc	gggttttcat	5160
tttctctgtg	gcccggagat	gaccacgcta	ctcagcactg	tgacagggtga	gcagctcagc	5220
ctctgtggca	gggcgcgggtg	tcagggtgag	gcagcgcccc	gcaaggccca	gctcctccag	5280
acggcacatg	atccgcaaga	tgcgctgggg	tacctcaggg	tgggtggctgt	cccacaagtt	5340
gcagtgatcc	atcatatttt	ggtcatagac	cagccctgtg	cgagactgta	gcactggcca	5400
tgtcaggatt	gggagcacag	ggggctccca	gggtccttcc	tcctcgctct	cctctacatt	5460
gtcctcctcc	atgttgtccc	tctccacggt	ctcagttgat	ctcacaagaa	cctccagaaa	5520
gggtcgaagg	gcttccagag	cacaggaaac	tgaagcctgg	gcactccggc	agggggcacc	5580
aggtgactcc	agcatggggc	aagggtctcc	cagaagggtg	tggagcggaag	cactgacgac	5640
ttcagccagg	gcgcggaggt	tgtagccacc	ctccagagac	aggatcagct	tgctcctgct	5700
cagaccatg	agcaggtggg	ttagctgggc	gaacctgccc	ggagtggcgg	ccatctcacc	5760
cttggggctc	ccttgcaggg	catcaaattc	agcagccacc	aggaccagct	gaggctggaa	5820
ctcaggggag	atgggcagca	ggacgtgcag	gaaagcagca	atgtagttag	catcccgcatt	5880
cccacctgg	ttccaaggcca	cattgatggt	atatccttgg	ccttggccga	aacctgtggg	5940
ggaccagtta	gaggccttca	ggtggggcca	gaacctaccc	tgctcgtagc	ggtggatgga	6000
gaaatagagg	acactggggg	cctgggtcgaa	ggtgaactgt	gttcccttgac	cgtgggtgcac	6060
atcccaatct	acgataagga	ccctccggat	gcggtgtttc	tgttgagcat	agcgggctgc	6120
cacagccacg	tggttgaaca	tgcaatagcc	atccataaga	ctgtgctggg	cgtgatgtcc	6180
aggaggccta	atgatggcca	tgccattccg	gatctcagcc	cccaggaccg	catccaccag	6240
cctgaggaca	gagcctgagg	ccaggcaggg	acaggagtat	gagttcggat	gcagataaac	6300
tgagtcttag	gtgtctgcta	ggacacggag	ttctccctca	ttcatgtact	gggttggttc	6360
catcagatgc	atatattcta	ggctgtgaac	caacctcagc	tcttcttttt	cagcaaaccg	6420
ggcctgaaag	gacacgcagc	gatctaggag	gcctcctgg	atcagttgct	ccttgatggc	6480
atggagccgc	tcagggcctt	ccgggaagct	gtcatcccag	aggcaatgga	attcatttaa	6540

ctgtctcatcc	aacaccaagc	cagtgccagc	cagtgtctca	gcctcaaggt	tcagatccat	6600
cccttgca	cccacgatta	ggtcttcttc	cattgtcttg	ccgagcttct	tcattttgcc	6660
ttcttctttt	acctccgcta	gattggggat	agagcgggga	acggctccct	ttttaatatt	6720
tcgtttcgaa	gtgacactgg	agtcttgagg	gggcgactgg	gggttctgcc	tacttcttcg	6780
ctgcctgggt	gtggtgggaat	cctggccggg	tgaggtcata	gttgaggagg	cttgccccct	6840
gccgcgggtt	ttccactccg	ccagatcccc	cccctagcgt	ttcaaccagc	cccgtctctc	6900
aggggactgc	cccgttccct	caaccagctc	caccccttgc	ccagaccgc		6949

<210> 273

<211> 3458

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 395096.3

<400> 273

ggttggtgct	gtagtggcgg	agaggatcgt	ggtactgcta	tggegggaatc	atcggaatcc	60
ttcaccatgg	catccagccc	ggcccagcgt	cggcgaggca	atgatccctct	cacctccagc	120
cctggccgaa	gtccccggcg	tactgatgcc	ctcacctcca	gccctggccg	tgaccttcca	180
ccattttgagg	atgagtcoga	ggggctccta	ggcacagagg	ggccccctga	ggaagaagag	240
gatggagagg	agctcattgg	agatggcatg	gaaagggact	accgcgccat	cccagagctg	300
gacgcctatg	aggccgaggg	actggctctg	gatgatgagg	acgtagagga	gctgacggcc	360
agtccagagg	aggcagcaga	gcgggccaatg	cggcagcgtg	accgggaggg	tggecggggc	420
ctgggcccga	tcgcgcgtgg	gctcctgtat	gacagcgatg	aggaggacga	ggagcgcctc	480
gcccgcgaagc	gccgccaggt	ggagcggggc	acggaggacg	gcgaggagga	cgaggagatg	540
attgagagca	tcgagaacct	ggaggatctc	aaaggccact	ctgtgcgcga	gtgggtgagc	600
atggcggggc	cccggctgga	gatccaccac	cgcttcaaga	acttctctcg	cactcacgtc	660
gacagccacg	gccacaacgt	cttcaaggag	cgcatacagc	acatgtgcaa	agagaacctg	720
gagagcctgg	tggtgaacta	tgaggacttg	gcagccaggg	agcacgtgct	ggcctacttc	780
ctgcctgagg	caccggcgga	gctgtctgag	atctttgatg	aggctgcctc	ggagggtgga	840
ctggccatgt	accccaagta	cgaccgcata	accaaccaca	tccatgtccg	catctccacc	900
ctgcctctgg	tggaggagct	gcgctcgctg	aggcgagctg	agggcaggca	gctgcatctg	960
aaccagctga	tcgcgaccag	tggggtgggtg	accagctgca	ctggcgctct	gccccagctc	1020
agcatgggtca	agtacaactg	caacaagtgc	aatttctgtc	tggttctctt	ctgccagctc	1080
cagaaccagg	aggtgaaacc	aggctcctgt	cctgagtgcc	agtcggcccg	cccccttgag	1140
gtcaacatgg	aggagacctg	ctatcagaac	taccagcgta	tccgaatcca	ggagagtcca	1200
ggcaaatggg	cggctggccg	gctgccccgc	tccaaggacg	ccattctcct	cgcatatctg	1260
gtggacagct	gcaagccagg	agacgagata	gagctgactg	gcattctatca	caacaactat	1320
gatggctccc	tcaacactgc	caatggcttc	cctgtctttg	ccactgtcat	cctagccaac	1380
cacgtggcca	agaaggacaa	caaggttgct	gtaggggaac	tgaccgatga	agatgtgaag	1440
atgatcacta	ggatcagcag	atcgagagag	agatctttgc	cagcattgct	gagcattgct	1500
ccttccatct	atggtcatga	agacatcaag	agaggcctgg	ctctggccct	gttcggaggg	1560
gagcccaaaa	accaggttgg	caagcacaag	gtacgtgggtg	atatcaacgt	gctcttgtgc	1620
ggagaccctg	gcacagcgaa	gtcgcagttt	ctcaagtata	ttgagaaaag	gtccagccga	1680
gccactcttca	ccactggcca	ggggcccgte	gctctgtggc	ctcacggcgt	atgtccagcg	1740
gcaccctgtc	agcagggagt	ggaccttggg	ggctggggcc	ctggttcttg	ctgaccgagg	1800
agtgtgtctc	attgatgaat	ttgacaagat	gaatgaccag	gacagaacca	gcatccatga	1860
ggccatggag	caacagagca	tctccatctc	gaaggctggc	atcgtcacct	ccctgcaggc	1920
tcgctgcacg	gtcattgctg	ccgccaaccc	cataggaggg	cgctacgacc	cctcgctgac	1980
tttctctgag	aacgtggacc	tcacagagcc	catcatctca	cgctttgaca	tcctgtgtgt	2040
ggtgagggac	accgtggacc	cagtcacagga	cgagatgctg	gcccgtctcg	tggtggggcag	2100
ccacgtcaga	caccacccca	gcaacaagga	ggaggagggg	ctggccaatg	gcagcgctgc	2160
tgagcccgcc	atgcccaca	cgtatggcgt	ggagcccctg	ccccaggagg	tcctgaagaa	2220
gtacatcatc	tacggccaag	agatgggtcca	cccgaagctc	aaccagatgg	accaggacaa	2280
ggtggccaag	atgtacagtg	acctgaggaa	agaatctatg	gcgacaggca	gcatcccat	2340
tacgggtgcg	cacatcgagt	ccatgatccg	catggcggag	gcccacgcgc	gcatccatct	2400
gcgggactat	gtgatcgaag	acgacgtcaa	catggccatc	cgctgtatgc	tgagagagctt	2460
catagacaca	cagaagttca	gcgtcatgcg	cagcatgcgc	aagacttttg	cccgtacctc	2520
ttcattccgg	cgtgacaaca	atgagctgtt	gctcttcata	ctgaagcagt	tagtggcaga	2580
gcaggtgaca	tatcagcgca	accgcttttg	ggcccagcag	gacactattg	aggtccctga	2640
gaaggacttg	gtggataagg	ctcgtcagat	caacatccac	aacctctctg	cattttatga	2700
cagtgcagctc	ttcaggatga	acaagttcag	ccacgacctg	aaaaggaaaa	tgatcctgca	2760
gcagttctga	ggccctatgc	catccataag	gattccttat	ggatggcata	gggattctgg	2820
tttgggggtg	tcagtgcctc	ctgtgcttta	tggaacacaa	accagagcac	ttgatgaact	2880
cgggggtacta	gggtcagggc	ttatagcagg	atgtctggct	gcacctggca	tgactgtttg	2940

```

tttctccaag cctgctttgt gcttctcacc tttgggtggg atgccttgcc agtgtgtctt 3000
acttggttgc tgaacatctt gccacctccg agtgccttct ctcactcag taccttggat 3060
cagagctgct gaggtcagga tgccctgcgt tgggttaggt gttagccttc ttacatggat 3120
gtcaggagag ctgctgccct cttggcgtga gttgcgtatt caggctgctt ttgctgcctt 3180
tgccagaga gctgggttgaa gatgtttgta atcgttttca gtctcctgca ggtttctgtg 3240
ccctgtgggt ggaagagggc acgacagtgc cagcgcagcg ttctgggctc ctcagtgcga 3300
ggggtgggat gtgagtcatg cggattatcc actcgccaca gttatcagct gccattgctc 3360
cctgtctgtt tccccactct cttattttgt cattcggttt ggtttctgta gttttaattt 3420
ttaataaagt tgaataaaat ataaaaaaa aaaaaaag 3458

```

<210> 274

<211> 1447

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 374086.1

<220>

<221> unsure

<222> 718-784

<223> a, t, c, g, or other

<400> 274

```

agagagtgcg gaggtgcgt ctggctcccg ctctcacagc cattgcagta cattgagctc 60
catagagaca gcgcccgggc aagtgcagagc cggacgggca ctgggcgact ctgtgcctcg 120
ctgaggaaaa ataactaaac atgggcaaag gagatccctaa gaagccgaga ggcaaaatgt 180
catcatatgc attttttgtg caaacttgtc gggaggagca taagaagaag caccagatg 240
cttcagtcaa cttctcagag ttttctaaga agtgcctcaga gaggtggaag accatgtctg 300
ctaaagagaa aggaaaattt gaagatatgg caaaagcggg caaggcccgt tatgaaagag 360
aaatgaaaac ctatatccct cccaaagggg agacaaaaaa gaagttcaag gatcccaatg 420
caccgaagag gcctccttcg gccttcttcc tcttctgctc tgagtatcgc ccaaaaatca 480
aaggagaaca tcttgccctg tccattgggtg atgttgcgaa gaaactggga gagatgtgga 540
ataacactgc tgcagatgac aagcagcctt atgaaaagaa ggctgcgaag ctgaaggaaa 600
atacgaataa ggatattgct gcataatcag ctaaaggaaa gcctgatgca gcaaaaaagg 660
gagttgtcaa ggctgaaaaa agcaagaaaa agaagggaaga ggaggaagat gaggaagnnn 720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
nnnnataagt tgggtctagc gcagtttttt ttttctggt ctataaagca ttttaacccc 840
ctgtacacaa ctactcctt ttaaagaaaa aaattgaaat gtaaggctgt gtaagatttg 900
tttttaact gtacagggtc tttttttgta tagttaacac actaccgaat gtgtctttag 960
atagccctgt cctgggtgta ttttcaatag ccactaacct tgccctgtac agtatggggg 1020
ttgtaaaattg gcatgggaaat ttaaagcagg ttcttgttgg tgcacagcac aaattagtta 1080
tatatgggga tggtagtttt ttcactctca gttgtctctg atgcagctta tacgaaataa 1140
ttgttgttct gtttaactgaa taccactctg taattgcaaa aaaaaaaa agttgcagct 1200
gttttgttga cattctgaat gcttctaagt aaatacaatt tttaaaaaac cgtatgaggg 1260
aactgtgtag acaaggtacc aggtcagctc ttctccatgt ctattagctc cacaagcca 1320
atctcaatcc ctcaaaacaa tcttgtcata cttgaaaata tgacactcta gtcaaagcct 1380
tggtaaaata atcagtgttt ccaatctgtc ctgttacaaa agaaacagat tattattgaa 1440
cttatgc 1447

```

<210> 275

<211> 1365

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 444495.4

<220>

<221> unsure

<222> 1361

<223> a, t, c, g, or other

<400> 275

```

aggggggtcca aagtgtcag cccccggggc acagcaggac gtttgggggc cttctttcag 60

```

```

caggggacag cccgattggg ctggggatag cegtttctct agcttggagc caccaagata 120
gaggacaaac acttctgtga tttagtcccc agactgtctc tgacttaatc ccttgggttc 180
aagccctatg tgggagagca agggcacaca ctgcctaate cgtgggtgtc ccccaggac 240
aatggcgtct cttggccaca tcttggtttt ctgtgtgggt ctctcacca tggccaagge 300
agaaagtcca aaggaaacag acccgttcac ttacgactac cagtccctgc agatcggagg 360
cctcgtcatc gccgggatcc tcttcatcct gggcatcctc atcgtgctga gcagaagatg 420
ccggtgcaag ttcaaacagc agcagaggac tggggaaccc gatgaagagg agggaaacttt 480
ccgcagctcc atccgcgcgc tgtccaccgc caggcggtag aaacacctgg agcgatggaa 540
tcgggccagg actccctgg cacctgacat ctcccacgct ccacctgcgc gccacccgcc 600
ccctccgcgc ccccttcccc agccctgccc ccgcagactc cccctgcgcg caagacttcc 660
aataaaacgt gctgcagcgc gccttcgcgc ccaaagcatc cagcagcccc ctgctccgcg 720
ccagcatggc gaccccgacc cagacccccca caaagggtc ctaggaacc tgacccattt 780
tactatgact acaacacggt gcagactgtg ggcatgactc tggcaaccat cttgttctct 840
ctgggtatcc tcatcgtcat cagcaagaag gtgaagtga ggaaggcgga ctccagggtc 900
gagagcccaa cctgcaaatc ctgtaagtct gagcttccct ctccagcccc tgggtggcgc 960
ggcgtgtaac accttcccga ggaaactccg ctgccgaccc tgccctgagc cgggagcctg 1020
aggagccggg ggagggcggt gggaccagc cgcgcgcgg gagcgcctcc cggaatgagc 1080
cgccccaccc accccaaggc tggagccgct gcacctgct gtccctctcc aggccttggc 1140
aatgacgatc ccccaaagag cccgtctgca cccagaccc agggcctcag gcctccagct 1200
cctgggatcc gggagtccat cccggcccag cacccccagc atccccgtgt atggccccc 1260
tgacacctct tgtctcatcc ccgaagatcc gtccccctgg cccctcagtg tccatgtctt 1320
gagcttaata aatgtgcatt tggttttttc ctctgtaaaa naaaa 1365

```

<210> 276

<211> 795

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 474876.2

<400> 276

```

gggtgaaagg tcatagtcct gtttggcggc catttctctt gaaactgcgc ctccgggacct 60
gcggtacctg ctgtagtcac gagggacggg cggcgccctg gtcggcagag agtagcctgc 120
aacattcggc cgtggttacg atgagtttac cctcaatcc caaacctttc ctcaatggac 180
taacaggaaa gccagtgatg gtgaaactta agtggggaat ggagtacaag ggctatctgg 240
tatctgtaga tggctacatg aacatgcagc ttgcaaatac agaagaatac atagatggag 300
ctttgtctgg acatctgggt gaagttttaa taagggtgaa taatgtcctt tatatcagag 360
gtgtggaaga agaggaagaa gatggggaaa tgagagaata gcatcttttg tgggggattt 420
tttttatata tatttctaga caataaagat ttgtttgttt ttcaacttga cttgtgaact 480
atttgatttc agatatttac aagcaaagct gaaatgatga accaattggg aaagattact 540
cactgaacta atgctttaaa agccactgaa ttccatttaa gttgcttttc ttttgtaagc 600
ccaatattct ttttttccc ataaaggata attatttata tgcttttagat atttttatga 660
aggtgaattt cagacctttt cttgtaaaat tatctattag ctgagacctt ttaaatgcaa 720
ctttttcttt taaagttatt tttgagctac ttttaacgta taaaattaaa cattttttta 780
ttaataccaa gaaaa 795

```